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26
Regulations
254

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Regulations
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REGULATIONS

FOR THE

EQUIPMENT of the REGULAR ARMY

PART 2.—SECTION XI (c)
FIELD ARTILLERY WITH Q.F. 4·5-INCH
HOWITZER EQUIPMENT

Batteries

1926



LONDON:
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.

To be purchased directly from H.M. STATIONERY OFFICE at the following addresses
Adastral House, Kingsway, London, W.C.2; 28, Abingdon Street, London, S.W.1;
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By Command of the Army Council,

A handwritten signature in dark ink, appearing to read 'H. G. Creedy'. The signature is written in a cursive style with a large, looped 'H' and a long, sweeping 'y'.

THE WAR OFFICE.

19th July, 1926.

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1.—SPECIAL INSTRUCTIONS.

I.—EQUIPMENT OF BATTERIES

1. *Details.*—Details of the equipments of batteries for war and for use in peace will be found on pages 30 to 65.

(See Section XI (b) Equipment Regulations, Part 2, for brigade headquarters and ammunition columns.)

2. Officers' Commanding are responsible that the proper steps are taken to make up any deficiencies that may arise in War Equipment.

3. *Explanation of terms.*—The equipment of a battery is divided under two headings :

(a) *Peace equipment.*—That which is required for use in peace, according to its peace establishment of men and horses.

(b) *Mobilization equipment in charge of the unit.*—That which is required to complete the equipment when raised from a peace to a war establishment.

4. *Accounting for stores.*—The stores will be held on charge in the equipment ledger, the peace equipment being kept separate from that on mobilization charge of the unit. Army Book 183 must be used in each instance.

5. The account will be balanced and rendered as laid down in Equipment Regulations, Part I., and not when the mobilization equipment in charge of the unit is handed over to a relieving battery.

6. *Storage of ammunition.*—The following instructions are to be observed with regard to the storage of ammunition in charge of the unit :—

i. Gun carriages, limbers, and ammunition wagons will be kept packed with all their stores except ammunition, in the case of Q.F. will be held boxed.

The ammunition will be held as near to the vehicles as local circumstances permit and the Magazine Regulations must be complied with. On mobilization the ammunition will be transferred to the vehicles according to the approved proportions of shrapnel and H.E.

ii. The sheds containing the ammunition in boxes must be considered as "Explosive Stores." If it is not possible to comply with the Magazine Regulations in their entirety, the regulations regarding cleanliness and precautions against fire must be enforced.

iii. Fuzed H.E. will not be stored in any limber or wagon in peace. See, however, Instructions for Practice.

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Ammunition in mobilization equipment should never be taken out of store except to replenish peace equipment or on mobilization. On no account should ammunition which has been in charge of the troops be returned to mobilization equipment in charge of the unit.

7. *Used articles of harness or saddlery.*—Any articles of harness and saddlery which have been used as peace equipment, by batteries on the higher establishment, when taken over by a battery on the lower establishment, should be placed in mobilization equipment in charge of the unit, but they should be exchanged for new at the earliest opportunity.

Commanding officers will ascertain periodically from the D.A.D.O.S. of the area whether new articles are available, or can be obtained to meet such exchanges. On receipt of the new stores they should be placed in mobilization equipment in charge of the unit, and the part worn articles returned to the Royal Army Ordnance Corps.

8. Further instructions regarding mobilization equipment are contained in Equipment Regulations, Part I.

9. *Camp equipment, &c., for annual training.*—To allow of the annual course of military training being carried out, a complete set of camp equipment for one battery will be drawn from local R.A.O.C. by each brigade serving in the district (or in the case of single battery stations, each station). Articles belonging to the mobilization equipments in charge of units should not be used for the purpose.

10. The stores required should be demanded under the orders of officers commanding brigades, who will detail the battery to demand, and arrange the sequence in which the equipment is to be handed over from one battery to another.

On completion of the training the equipment will be returned to the R.A.O.C., by the battery last using it.

11. Local arrangements must be made to ensure that the complete equipment of the battery, in every respect, is available and correctly packed. Empty cases or dummies will be used on these occasions to represent any articles which are not available in the district.

12. *Camp equipment.*—Camp equipment for standing camps and manoeuvres, should be demanded in accordance with the scales laid down in Equipment Regulations, Part I.

II.—MARKING OF EQUIPMENT

13. The camp kettles and water buckets belonging to the peace equipment will be marked in front with the letters "R.A.," and in rear with the letter of the sub-section and number of the battery, thus,

"D"

Drawings to illustrate the method of marking, and typical position of the marks, can be obtained from the R.A.O.C.

Bags, picketing gear, will also be similarly marked, but on the end.

Detailed instructions for marking vehicles and equipment will be found in Equipment Regulations, Part I.

III.—REPAIRS

14. The examination and repair of equipment should be carried out by the R.A. artificers so far as may be possible. When special tools or appliances are required, which are not available with the battery, the artificers should be sent, together with the material requiring repair, to the nearest R.A.O.C. workshop at which the necessary facilities exist, in order that they may there carry out, or assist in carrying out, the repair.

Any implements, &c., required to carry out a repair of this equipment should accompany the artificers.

15. Ordnance mechanical engineers are available to advise officers commanding on any question which it may be desirable to refer to them in connection with the field armament as well as fortress work.

16. When the services of these officers are required in connection with the inspection or repair of equipments which cannot be carried out by battery artificers, application will be made by officers commanding units to the D.A.D.O.S. of the area.

17. Officers commanding brigades will arrange that the services of the R.A. artificers are utilised in keeping the equipment of the brigade in a thoroughly serviceable condition.

IV.—RETURNS

18. Ordnance on Royal Artillery charge will be included in the Annual Return A.F. G 872, rendered on the 1st August by officers commanding Royal Artillery in districts, in accordance with the King's Regulations.

V.—EXAMINATION OF ORDNANCE

19. Instructions for the examination of ordnance will be found in the Regulations for Army Ordnance Services, Part II.

20. All spare parts should be tried for interchangeability as soon as possible after receipt, and a report of the defects, if any, forwarded to the Chief Inspector, Woolwich.

21. Spare parts of guns and carriages are supplied solely for the purpose of replacing similar defective or damaged parts, and will not be used for any purpose other than that for which they are maintained, unless specially authorized.

VI.—TARGETS FOR GUN PRACTICE

Land Ranges

22. Targets for use at practice camps will, as far as practicable, be made up locally. The targets are of the pattern described in Instructions for Practice Light, &c., Artillery, and together with the dummies and other stores are allowed in special proportions (see detail of stores allowed to the various camps during practice season, for batteries of light, medium and heavy artillery).

VII.—HOWITZER AMMUNITION FOR PRACTICE AND EXERCISE

23. The annual allowance of practice ammunition will, for the present, continue to be promulgated by Army Council Instructions.

24. *Turnover of ammunition.*—To ensure a proper “turnover” of ammunition, ammunition fired at annual practice by batteries will be taken, as far as possible, from their service equipment—that in peace equipment being used up first.

In the case of ammunition which is issued in two-round boxes, the 2 shells, 2 cartridges, and 2 fuzes contained in the box will be considered as two complete rounds, the components of which are, if possible, to be kept and fired together. The oldest lot of cordite stencilled on the boxes will be taken to determine the transference of the contents of the boxes to the wagons and limbers for expenditure.

Further instructions regarding the turnover of ammunition are laid down in Equipment Regulations Part 1.

Demands to complete equipment will be put forward prior to departure of batteries to practice, so that on their return to their station the ammunition may be in readiness.

Demands for cartridges must be accompanied by a list of the propellants lots of the natures concerned held on charge by the Unit in order that propellants of similar lots of those in possession may, as far as possible, be issued.

In cases where batteries are to exchange stations after practice, the new station where the ammunition will be required should be clearly indicated on the demand.

25. Empty cartridge cases will, after firing, be cleaned (see Regulations for Magazines), and returned to store as soon as possible after the conclusion of practice. 1-lb. of mineral jelly per 60 empty cases and 1-lb. of soda per 30 empty cases may be drawn for cleaning purposes.

Primers.—Fired primers of Q.F. cartridges will in future be brought on charge by batteries by certificate receipt voucher. They will not be removed from the cartridge cases.

Caps of fuzes No. 106 must also be returned to R.A.O.C. store.

26. Unexpended portions of cartridges should be returned to the R.A.O.C.

27. Ammunition will be demanded on A.F. G 988. Any of the annual supply of service or blank ammunition which has not been expended by the end of the year (31st March and 31st August respectively) for which it is allowed will be forfeited.

See Part I, Equipment Regulations, as to accounting for blank gun ammunition.

28. In demanding fuzes, tubes, primers, and other laboratory stores supplied in sealed cylinders, the numbers given in the details of equipment will be adhered to as closely as possible; but full cylinders should always be demanded. Cylinders containing these articles will on no account be opened, unless their contents are required for immediate use.

29. *Marking fuze cylinders.*—The hermetically sealed tin cylinders, containing fuzes, will be marked by the battery by scratching on them with a pointed implement, the date on which they are received.

VIII.—HANDBOOKS

30. Handbooks are issued in the following proportions and will be held on charge as laid down in Equipment Regulations Part I.

Distribution.	Handbooks.	
	Q.F. 4.5 inch.	Artillery Instruments.
Batteries	20 (a)	6 (b)
" for Officers	5	—
Armament Artificer	1	1

(a) For a four-gun battery only 15 handbooks are allowed.

(b) For a four-gun battery only 5 handbooks are allowed.

IX.—STORES FOR MUSKETRY INSTRUCTION

31. The following will be allowed per battery for use during peace ;—

Weedon Section A

Actions, skeleton, M.L.E., rifle, short	...	1
Aim correctors, No. 1	... ..	2
Implements, action, M.L.E., rifle, short	...	1
Rifles, short, .22-inch, R.F.	... ..	4
Brushes, cleaning, tubes, aiming	...	4
Cleaners, tube, aiming	... ..	4
Rods, cleaning, tubes, aiming	...	4
Tools, removing, handguard No. 1	... ..	1

Section No. 27—A

Cartridges, S.A. drill, .303-inch rifles,			
Carbines or Machine Guns, Mk. VI	15	for each rifle.	
Chargers, .303-inch cartridges	...	3	„ „

X.—HORSE-SHOES

32. On active service, all horses requiring shoes will be shod with shoes, which will be supplied according to the following scale, unless otherwise demanded.

Shoes to be stored with mobilization equipment will be according to War Equipment Table. The total number will be at the rate of 50 per cent. of the number of animals.

Description										No. per cent.
<i>Section No. 6</i>										
Shoes, horse, pairs—										
No. 4—										
Fore	....	....	....	....	....	....	....	....	....	8
Hind	....	....	....	....	....	....	....	....	....	8
No. 5—										
Fore	....	....	....	....	....	....	....	....	....	20
Hind, lead	....	....	....	....	....	....	....	....	....	14
Hind, wheel	....	....	....	....	....	....	....	....	....	6
No. 6—										
Fore	....	....	....	....	....	....	....	....	....	30
Hind, lead	....	....	....	....	....	....	....	....	....	9
Hind, wheel	....	....	....	....	....	....	....	....	....	21
No. 7—										
Fore	....	....	....	....	....	....	....	....	....	24
Hind, wheel	....	....	....	....	....	....	....	....	....	24
No. 8—										
Fore	....	....	....	....	....	....	....	....	....	14
Hind, wheel	....	....	....	....	....	....	....	....	....	14
No. 9—										
Fore	....	....	....	....	....	....	....	....	....	2
Hind, wheel	....	....	....	....	....	....	....	....	....	2
No. 10—										
Fore	....	....	....	....	....	....	....	....	....	2
Hind, wheel	....	....	....	....	....	....	....	....	....	2

Instructions regarding the allowance of horse-shoes in peace will be found in Equipment Regulations, Part I, 1923.

Frost cogs, taps and wrenches, *see* Equipment Regulations, Part I, 1923.

XI.—STORES FOR THE REPAIR, PRESERVATION, AND PAINTING OF EQUIPMENT

Harness and Saddlery

33. The repair of saddlery allowed for the headquarters of brigades and Royal Artillery districts will be effected by the artificers of the nearest battery when practicable.

Any materials for repair that may be required by batteries on service, will be demanded as required direct from the Ammunition Column.

Ordnance, Carriages, Projectiles, &c.

34. Detailed instructions for the preservation and inspection of ordnance, &c., are given in the Magazine Regulations and Regulations for the care and preservation of artillery equipment, for the guidance of officers of the Royal Artillery in carrying out the services therein referred to, and officers of the R.A.O.C. in supplying such materials and stores as may be from time to time required for performing the same.

35. The following proportions of materials for care and preservation of equipment in batteries (except harness and saddlery), and the tools, &c., for painting are laid down for peace purposes in the following table. Rangoon oil, cotton waste coloured, and rags, linen or cotton, required for use at the annual overhaul, will be indented for, as required from the R.A.O.C.

ANNUAL ALLOWANCE

Section	Articles	Battery Proportions	Purposes for which required
9 A	Bathbricks	2 for each carriage and limber	For general cleaning purposes.
		2 for each wagon and limber	
		4 for each carriage and limber	
9 A	Beeswax ozs.	4 for each wagon and limber	For general purposes.
9 A	Chalk, prepared, white boxes	1	
13 C	Cloths, sponge	10 for each howitzer	
9 A	Cloth, emery No. F....	4 sheets for each sub-section†	General cleaning purposes.

ANNUAL ALLOWANCE—continued.

Section	Articles	Battery Proportions	Purposes for which required
H 2	Cotton , waste, white (h) ozs.	8 for each battery	For signalling gear.
9 B	Cylinders , paint, No. 3	2	For mineral jelly.
9 A	Dubbing lbs.	1½ for each howitzer	For straps and leather work.
9 A	Glue , best town made lbs.	$\frac{3}{4}$	For general purposes.
9 A	Grease , lubricating, for cool climates (a) lbs.	3 for each wheel (b) $\frac{1}{2}$ " (c) $\frac{1}{2}$ " (d)	Lubricating.
9 A	Mineral jelly , red $\frac{1}{2}$ lbs.	3	Protection of bore and breech fittings Coating bright part of carriage, &c.
9 A	Oil — Linseed— Boiled pts.	5 (e)	Coating bright parts and wiping over shells.
	Raw gills	$\frac{1}{4}$ for each carriage 36 (f)	For side arms. Lubricating.
	Rangoon pts.	3 for each carriage and limber 2 for each wagon and limber	For general cleaning purposes.
9 A	Paint prepared for use— Black, lamp ozs. Lead, white ozs. Service colour ozs.	4 (h) 4 (h) 4	Painting aiming posts. Painting range-finders and cases.
N.I.V.	Rags , linen, or cotton, old lbs.	1	For wiping over shell to prevent rust.
N.I.V.	Rags , cotton, old, soft lb.	1	For cleaning optical portions of instruments.
9 A	Soap — Soft.... lbs. Yellow bars	1 for each carriage and limber 1 for each wagon and limber 12 for each carriage and limber 12 for each wagon and limber	For general cleaning purposes.
H 2	Tow , jute lbs.	4	Packing stores generally.

ANNUAL ALLOWANCE—*continued.*

Sec- tion	Articles	Battery Proportions	Purposes for which required
9 A	Turpentine or white spirits pts.	$\frac{1}{4}$ (g)	Painting aiming posts.

(a) "Grease, lubricating, for hot climates," will be used at all Stations abroad.

(b) On certificate of Commanding Officer that the wheels are in constant use.

(c) When not in constant use.

(d) For vehicles in mobilization charge of the unit.

(e) 2 pints of this oil allowed for mobilization equipment in charge of the unit.

(f) 16 additional pints allowed for the battery or batteries stationed at Lark-hill.

(g) Thinning paint if necessary.

(h) 1 lb. for each battery stationed at Larkhill.

† For each battery stationed at Larkhill, performing duties for the School of Artillery, 32 sheets per battery, annually, will be allowed.

‡ 24 lbs for each battery annually for units performing the duties as stated at †.

TO BE DEMANDED AS REQUIRED, AND RETURNED TO ORDNANCE STORE
WHEN UNSERVICEABLE.

Sec- tion	Articles	Battery Proportions	Remarks
11	Brushes, paint—		Tools for Painting, &c. } When a battery is placed on a war footing the articles in possession will not be maintained in the field.
	Oval	3	
	Sash, tool—		
	No. 2	3	
	No. 4	2	
	No. 6	2	
7	Brushes, sable, writ- ing, duck, large	2	
7	Cans, paint—		
	7½-inch dia.	1	
	7-inch dia.	1	
7	Knives—		
	Palette, 9-inch	1	
	Putty	1	
5 A	Pans, oil	4	

36. The paint allowed for painting guns, carriages, &c., of batteries, as laid down in the following Tables A and B, will be demanded on 1st March or 1st September, and the painting will be carried out under orders of the O.C. battery.

37. "Range-finders, artillery, Nos. 1 and 2" and their cases will be painted with service colour paint annually, or oftener if

found necessary. For this purpose $\frac{1}{4}$ lb. of paint for each instrument will be allowed, the work being carried out by the Brigade R.A. artificer. This does not apply to those range-finders and cases which are made of, or covered with leather.

**MATERIALS, TIME, AND WORKING PAY ALLOWED FOR PAINTING
THE FOLLOWING VEHICLES, &C.**

Annual Supply during Peace only.

N.B.—For the Vehicles, &c., forming the mobilization equipment in charge of batteries, the proportion of paint, &c., should only be issued when they actually require painting.

Description	Paint prepared for use Service colour	Putty	Scraping and cleaning (a)	Painting (a)
				Stopping, painting bare places and one coat
	lbs. ozs.	lbs. ozs.	Time H. M.	Time H. M.
Bar , supporting draught pole, No. 3 a doz. (spare)	0 (d)	....	1 0	1 0(b)
Carriage , field, Q.F. 4·5-inch howitzer	6 12	0 7	3 0	6 0
Carts — Officers' mess	4 0	0 8	3 0	4 0
Water tank— Marks III to VII, complete	5 0	0 4	3 0	8 0
Limbers , Q.F. 4·5-inch howitzer....	5 12	0 7	2 45	5 45
Poles , draught, Nos. 17 and 18 (spare)	1 0	....	0 15	0 20
Wagons — Ammunition, Q.F. 4·5-inch howitzer	5 12	0 7	2 45	5 45
G.S.	15 0	2 0	6 0	15 0
Limbered, F.A. or A. & S.— Fore	5 0	0 12	3 0	6 0
Hind	5 0	0 12	3 0	6 0
Wheels , 2nd class, "C," No. 45 (spare)	1 4	0 2	0 30	1 0
Wheels , No. 200	1 0	0 3	0 40	1 0
Miscellaneous stores (c)	30 0	....	....	....

(a) Working pay at the rate of $1\frac{1}{4}$ d. an hour is issuable for this service.

(b) Oiling.

(c) For each battery.

(d) Woodwork will be treated with oil, mineral, preserving wood, $1\frac{1}{2}$ gills being allowed for 12 bars. Paint for metal work will be taken from quantity authorized for limbers.

No soldier who is in receipt of tradesman's rates of pay will be entitled to be remunerated from this allowance for the performance of any duties in connection with the service for which the allowance is granted, unless those duties are performed in his own time in addition to those for which he receives tradesman's rates of pay.

MATERIALS, TIME, AND WORKING PAY ALLOWED FOR CLEANING AND PAINTING ORDNANCE

TABLE B		Paint prepared for use Service colour one coat	Scraping and Cleaning (b)	Painting one coat (b)
		lbs. ozs.	Time H. M.	Time H. M.
Ordnance, 4.5 inch howitzer		0 12	2 0	0 50

(b) Working pay at the rate of 1½d. an hour is issuable for this service.

38. H.E. shell may occasionally require painting or oiling. The details of materials, &c., allowed are laid down in the following Table C. The work will be carried out by battery artificers. Commanding officers will be responsible that the shells are correct to gauge. Gauges after painting will be obtained as required on loan from the R.A.O.C.

MATERIALS, TIME, AND WORKING PAY ALLOWED FOR CLEANING, PAINTING, AND OILING LYDDITE SHELL

TABLE C	Per 100					Remarks
	Paint one coat	Oil	Scraping and cleaning (a)	Painting one coat (a)	Oiling (a)	
	lbs.	pints	Time H. M.	Time H. M.	Time H. M.	
Shell, Q.F., H.E., 4.5-inch howitzer	5	½	10 15	3 30	2 0	All materials to be free from lead.

(a) Working pay at the rate of 1½d. an hour is issuable for this service.

39. *Tinman's tools*.—A set of tinman's tools is supplied to each battery for carrying out small repairs.

XII.—STORES FOR THE DESTRUCTION OF SHELL

40. A set of stores for the destruction of shell at practice camps, also such quantity of guncotton and detonators as are considered necessary, will be allowed to all land ranges, and will be demanded in the undermentioned proportions and accounted for by the commandant :—

MATERIALS REQUIRED FOR EACH CHARGE

Section No. 25.

Guncotton—				No.
Dry primers, field, 1-oz.	...	...	...	1
Wet slabs, field, 15-oz.	...	...	...	1

Section No. 26.

Detonators, electric, No. 13	...	...	...	1
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Section No. 29—D.

Sandbags	...	...	...	...	...	4
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STORES.

Articles	No.	Remarks
<i>Section No. 7.</i>		
Pliers, side-cutting, 7-inch pairs	1	
<i>Section H 2.</i>		
Twine, packing small lb.	1	Securing charge.
<i>Section No. 9A.</i>		
Cloth, emery, No. F sheets	2	Cleaning ends of wire.
<i>Section No. 28B.</i>		
Cable, electric, E. 1, Mark II yards	2,000	Old telegraph cable unfit for general issue would do if available
Exploders, dynamo	1	{ Repairing defective wire.
Solution, rubber 3-oz. tubes tubes	9	
Tape, rubber, pure lb.	$\frac{1}{2}$	

XIII. SIGNALLING AND TELEPHONE STORES

41. Signalling and telephone equipment according to the following scales will be allowed.

Articles	For each battery		
	War	Peace	
<i>Section A1.</i>			
Belts, lineman .....	.....	.....	1 for each signaller.
Frogs, pliers, side-cutting, 8 inch .....	.....	.....	1 for each signaller.
<i>Section No. 6A.</i>			
Saddlery universal—			
Buckets—			
Signalling flag	6	6	
Tripod stand	2	2	
<i>Section No. 7.</i>			
Pliers, side-cutting, 8-inch, Mark IV, pairs .....	.....	.....	1 pair for each signaller.
<i>Section No. 8c.</i>			
Apparatus, aerial signalling—			
Panels, T (a)	2	2	(a) For units abroad only.
Strips	12	12	
Cases, message book	2	2	
Flags, signal, army—			
Blue, small	11	11	
White, with stripes, small	11	11	
Poles, 3-feet 6-inch	33	33	
Heliographs, 5-inch, Mark V	2	2	
Keys, dummy, signallers, Mark II .....	.....	8	
Panniers, signalling	2	2	
Shutters, signalling, folding—	4	4	
Bags	4	4	
Springs	4	1	
Stands, lamp or helio. "A,"			
Mark III	4	4	
<i>Section No. 8d.</i>			
Cases, compass, prismatic Mk. I or Mark I*	2	2	
Compasses, prismatic, Mk. VIII	2	2	
Watches, G.S.	2	2	

Signalling and Telephone Stores—continued.

Articles	For each battery		Remarks
	War	Peace	
<i>Section No. 15B.</i>			
Spectacles, tinted, No. 1 (with cases) (a) pairs	2	....	(a) For tropical climates
Stands, signalling, telescope	2	2	
Telescopes, signalling	2	2	
<i>Section No. 28B.</i>			
Batteries, dry, torch	16	8(b)	(b) For peace training only, not available for War.
" " " spare	16	....	
Batteries, inert—			(c) For Telephone set No. 44A (or 44c).
2-cell (c)	1	1(b)	
2-cell (c) spare	1	1	
Bulbs, 3·5 volt, P spare	16	....	
Cable, electric—			
D.2, Mark IV miles	6	6(b)	
D.3, Mark IV, twisted .....	....	$\frac{1}{2}$	
D.8, twisted .... ..	....	$\frac{1}{2}$	
Cells, inert—			
Q	4	4(b)	} For Telephone sets No. 110.
Q spare	4	4	
S (d)	58	56(b)	(d) 8 for each Lamp, sig., daylight, short range,
S (e) spare	90	88	4 for each Fullerphone, and 2 for each Telephone set D.
Detectors, Q and I	2	2	
Cases	2	2	
Reels, cable—			
No. 1	8	10(b)	(e) 16 for each lamp, sig., daylight short range, 4 for each Fullerphone, and 2 for each Telephone set D.
No. 2, Mark II	12	12(b)	
Spindles	8	8	
Rivets spare	9	9	
Springs	2	2	
Strips, terminal, 8-pair	1	1	
Tape, insulating, $\frac{3}{4}$-inch lbs.	1	1(f)	(f) Annually.
Torches, hand (with Bulb, 3·5-volt, P)	16	8	
<i>Section No. 29A.</i>			
Apparatus, cable laying, R.A.			
sets	2	2	
Bars, carrying, reel, cable, No. 1	2	2	

Signalling and Telephone Stores—*continued.*

Articles	For each battery		Remarks.
	War	Peace	
<i>Section No. 29A—contd.</i>			
Belts, reel, cable, No. 2	6	6	
Sockets	6	6	
Boxes—			
Spare, cell, large	1	1	
Tin, japanned (or wood polished) stationery, unit B	1	....	
Buckets, reel, cable, No. 2	6	6	
Cases, microphone, capsule	1	1	
Climbers, pole pairs	2	2	
Counters, bone	20	20	
Ear-cushions, telephone	11	8	
Fullerphones, Mark III*	2	2(a)	(a) Annually.
Labels, line, G	200	50	
Lamps, sig., daylight, short range	2	4	54/Art./8698.
Buckets	2	2	
Microphones, capsule, Mark I	9	6	
Pins, earth, small	11	8	
Sticks, crook, jointed, Mark II			
sets	2	2	
Straps	2	2	
Switch units, buzzer, 7 + 3	1	1	
Telephone sets—			
No. 44A (or 44c)	1	1	
No. 110	2	2	
D, Mark III (or IV)	9	8	
N.I.V.			
Pouches, lineman, filled	1	1	
Containing—			
<i>Section No. 7.</i>			
Screwdrivers, watchmakers—			
$\frac{1}{4}$ -inch	1	1	
$\frac{1}{8}$ -inch	1	1	

Signalling and Telephone Stores—continued.

Articles	For each battery		Remarks.
	War.	Peace.	
<i>Section No. 28B.</i>			
Nippers, side-cutting, 5-inch pairs	1	1	
<i>Section No. 29A.</i>			
Cases, tool, telegraph instrument	1	1	
Cleaners, contact, telegraph instrument	1	1	
Pins, adjusting—			
4-inch	1	1	
2½-inch—			
Stout	1	1	
Fine	1	1	
Pliers, side-cutting, 5-inch pairs	1	1	
Tweezers, small „	1	1	
<i>R.A.C.D.</i>			
<i>Pimlico Section No. 19.</i>			
Scissors, button-hole pairs	1	1	

**XIV.—STORES FOR INSTRUCTION IN RECON-
NAISSANCE.**

42.—The following will be allowed in peace for the instruction in map reading:—

Section No. 8D

	For each battery.
Boards , sketching, common	2
Compasses , magnetic, pocket, Mark VI	2
Instruments , drawing, field sets	2
Protractors , rectangular, 6-in., wood, A, Mark II (or ivoryine "A," Mark III)	2
Scales , marquois, Mark II sets	2

Not in Vocabulary

Miscellaneous

Conventional signs	6	} Stationery Office supply.
Note books, for reconnaissance	6 (a)	
Pencils, black lead	12 (a)	
Rules, flat, boxwood, 1 foot (marked in inches)	6	} To be purchased locally by R.A.O.C.

(a) Annually.

XV.—SETS OF TOOLS*(Referred to in Equipment Regulations Part I. and in Tables of Details).*

Sets which are detailed in Equipment Regulations, Part I., are not given herein.

**CHEST, TOOL, SCREW-CUTTING, R.A., FIELD MARK II,
FILLED**

Articles							No.
<i>Section No. 7</i>							
<i>Detail</i>							
Chests, empty	....	....	....	....	....	....	1
Tools, screw-cutting, R.A., field (B.S.W. thread)—	....	....	....	....	....	....	1
Cans, oil, lubricating, small	....	....	....	....	....	....	1
Dies, circular—							
$\frac{3}{4}$ -inch	....	....	....	....	....	....	1
$\frac{1}{2}$ " "	....	....	....	....	....	....	1
$\frac{1}{4}$ " "	....	....	....	....	....	....	1
$\frac{3}{8}$ " "	....	....	....	....	....	....	1
Stocks, circular die....	....	....	....	....	....	....	1
Taps—							
$\frac{3}{4}$ -inch—							
Taper	....	....	....	....	....	....	1
Second	....	....	....	....	....	....	1
Plug	....	....	....	....	....	....	1
$\frac{1}{2}$ -inch—							
Taper	....	....	....	....	....	....	1
Second	....	....	....	....	....	....	1
Plug	....	....	....	....	....	....	1
$\frac{1}{4}$ -inch—							
Taper	....	....	....	....	....	....	1
Second	....	....	....	....	....	....	1
Plug	....	....	....	....	....	....	1
$\frac{3}{8}$ -inch—							
Taper	....	....	....	....	....	....	1
Second	....	....	....	....	....	....	1
Plug	....	....	....	....	....	....	1
Wrenches, adjustable	....	....	....	....	....	....	1

SETS OF TOOLS

Articles								No.
<i>Section No. 7</i>								
SADDLERS' TOOLS.								
No. 1 Set								
<i>(Carried in Valise.)</i>								
Apron, canvas, white	....	....	....	....	....	....	....	1
Awls, blades—								
Harness—								
3-inch	....	....	....	....	....	....	....	1
2 $\frac{3}{4}$ "	....	....	....	....	....	....	....	1
2 $\frac{1}{2}$ "	....	....	....	....	....	....	....	1
2 $\frac{1}{4}$ "	....	....	....	....	....	....	....	1
2 "	....	....	....	....	....	....	....	1
Pannel—								
5 $\frac{1}{4}$ -inch	....	....	....	....	....	....	....	1
Awls, handles—								
Harness	....	....	....	....	....	....	....	2
Pannel	....	....	....	....	....	....	....	1
Clams, saddlers'	....	....	....	....	....	....	pair	1(a)
Knives—								
Half round	....	....	....	....	....	....	....	1
Head	....	....	....	....	....	....	....	1
Marline Spikes, steel, 9-inch	....	....	....	....	....	....	....	1
Needles—								
Collar, half moon—								
5 $\frac{1}{2}$ -inch	....	....	....	....	....	....	....	1
Darning, 4-inch	....	....	....	....	....	....	....	2
Harness	....	....	....	....	....	....	....	25
Saddlers'—								
Sewing	....	....	....	....	....	....	....	25
Stitching	....	....	....	....	....	....	....	10
Palms, saddlers'	....	....	....	....	....	....	....	1
Pliers, flat nose	....	....	....	....	....	....	pair	1
Punches, spring, 11-inch	....	....	....	....	....	....	....	1
Thimbles, tailors'	....	....	....	....	....	....	....	1
No. 2 Set								
<i>(Carried in Box, Mobilization Stores, No. 6.)</i>								
Awls, blades—								
Buckling—								
4-inch	....	....	....	....	....	....	....	6
5 "	....	....	....	....	....	....	....	6
Drawing	....	....	....	....	....	....	....	4

(a) Strapped outside valise.

SETS OF TOOLS—*continued.*

Articles	No.
<i>Section No. 7—continued.</i>	
SADDLERS' TOOLS—<i>continued.</i>	
No. 2 Set—<i>continued.</i>	
<i>(Carried in Box, Mobilization Stores, No. 1.)</i>	
Awls, Blades—	
Garnishing—	
2½-inch	4
2 "	4
Harness—	
3-inch	3
2½ "	5
2½ "	5
2½ "	5
2 "	3
Pannel—	
7-inch	4
5½ "	2
Awls, handles—	
Drawing	8
Harness	2
Pannel	6
Bones, hollow	2
Chisels, hand, cold, ¼-inch by 8-inches	2
Claw, nail	2
Compasses, wing, 10 inch	2 pairs
Creases—	
Double	2
Single	2
Gimlets, common, No. 6	2
Hammers—	
Saddlers'	2
Riveting, 8-oz.	2
Irons—	
Pricking—	
12-stitch	2
7 "	2
5 "	2
Knives—	
Gauge, plough	2
Trimming	2
Lead, punching, saddlers', 4-lb.	2 pieces
Mallets, tinman's	2
Needles—	
Collar, half moon—	
6½-inch	2
4½ "	2
Darning, 4-inch	6
Harness	75

SETS OF TOOLS—*continued.*

Articles							No.
<i>Section No. 7—continued.</i>							
SADDLERS' TOOLS—<i>continued.</i>							
No. 2 Set— <i>continued.</i>							
<i>(Carried in Box, Mobilization Stores, No. 6.)</i>							
Needles, saddlers'—							
Sewing	....	....	....	....	....	....	25
Stitching	....	....	....	....	....	....	20
Pincers, saddlers'	....	....	....	....	....	.... pairs	2
Punches, oval—							
No. 31	....	....	....	....	....	....	2
„ 28	....	....	....	....	....	....	2
„ 24	....	....	....	....	....	....	2
„ 23	....	....	....	....	....	....	4
„ 22	....	....	....	....	....	....	4
„ 21	....	....	....	....	....	....	4
„ 20	....	....	....	....	....	....	4
Rasps, shoemakers, 10-inch	....	....	....	....	....	....	2
Rules, G.S., 4-fold	....	....	....	....	....	....	2
Scissors, tailors'	....	....	....	....	....	.... pairs	2
Screwdrivers, G.S., 6-inch	....	....	....	....	....	....	2
Shaves, saddlers'	....	....	....	....	....	....	2
Sticks, stuffing	....	....	....	....	....	....	2
Thimbles, tailors'	....	....	....	....	....	....	2
Tools, edge—							
No. 2	....	....	....	....	....	....	2
„ 3	....	....	....	....	....	....	2
<i>Section G—1</i>							
Padlocks, iron, 2 inch	....	....	....	....	....	....	1
<i>Section No. 12</i>							
Stones, rub, scythe	....	....	....	....	....	....	2

FITTERS' OR WHEELERS' TOOLS

No. 1 Set

*Section No. 7**(Carried in Valise.)*

Callipers, 4-inch, outside	....	....	....	....	....	.... pairs	1
Chisels—							
Cross cut, 7-inches × $\frac{1}{4}$ -inch	....	....	....	....	....	....	1
Hand, cold, 8-inches × $\frac{3}{4}$ -inch	....	....	....	....	....	....	2
Firmer, coachmakers', 1-inch							1
Drifts, brass round, $\frac{3}{8}$-inch							1

SETS OF TOOLS—*continued.*

Articles	No.
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FITTERS' OR WHEELERS' TOOLS—*continued.*No. 1 Set—*continued.*Section No. 7—*continued.*

(Carried in Valise.)

Files—

Bastard, round, 10-inch	....	....	....	....	1
Regular cut, hand, safe edge, tanged, 12-inch	....	....	....	....	1
Fine cut, hand, safe edge, tanged, 8-inch	....	....	....	....	1
Smooth, half-round, 6-inch	....	....	....	....	1
Hammers, fitters', 16-oz.	....	....	....	....	1
Handles, files—					
Large	....	....	....	....	1
Small	....	....	....	....	2
Pliers, side-cutting, 8-inch, Mark IV	....	....	....	pair	1
Punches, pin —					
$\frac{1}{4}$ -inch	....	....	....	....	1
$\frac{3}{16}$ -inch	....	....	....	....	1
$\frac{1}{2}$ -inch	....	....	....	....	1
Rules, armament artificers', 1-foot	....	....	....	....	1
Scribers	....	....	....	....	1
Spokeshaves, $2\frac{1}{2}$ -inch or $3\frac{1}{4}$ -inch	....	....	....	....	1
Vices, hand, combination	....	....	....	....	1

Section G—1

Not in Vocabulary

Nails, assorted (a)	....	....	....	....	lb.	1
Screws, assorted (a)	....	....	....	....	lb.	1

No. 2 Set

(Carried in Bag, Tool, Wheelers'.)

Section No. 7

Augers—

Handles—						
16-inch	....	....	....	....	....	1
$13\frac{1}{2}$ "	....	....	....	....	....	1
Screw, solid wing, eyed, $1\frac{1}{4}$ -inch, 1-inch, $\frac{7}{8}$ -inch (1 of each)	....	....	....	....	....	3
Screwdrivers, G.S., 14-inch	....	....	....	....	....	1

(a) Description to be stated in demands.

SETS OF TOOLS—*continued.*

Articles	No.
FITTERS' OR WHEELERS' TOOLS—<i>continued.</i>	
No. 3 Set	
<i>(Carried in Box, Mobilization Stores, No. 1.)</i>	
Section No. 7	
Aprons, canvas, white	1
Braces, carpenters' ratchet, with 24 bits	1
Can, oil, lubricating, small	1
Drifts, steel, round, $\frac{1}{2}$ -inch	1
Files—	
Bastard, round, 6-inch	1
Regular cut, half round—	
14-inch	1
8-inch	1
Saw, taper, second cut, single, 6-inch	1
Hammers—	
Fitters' 8-oz.	1
Riveting, 24-oz. (or carpenters')	1
Handles, file, large	1
Holders, file, with handle, half round (b)—	
14-inch	1
8- „	1
Oilstones, carpenters'	1
Pencils, carpenters'	2
Planes, smoothing	1
Pliers, side-cutting, 8-inch, Mark III (or IV)	pair 1
Punches, carpenters', small	1
Rules, saddletreemakers'	1
Sets, saw, hand	1
Screwdrivers, G.S., 6-inch	1
Spanners, adjustable, 11-inch	1
Squares, fitters' 4-inch	1
Stocks, drill, hand, Mark II	1

Section No. 7
SHOEING TOOLS
(Carried in Valise.)

Aprons, basil, brown	1
Buffers, farriers'	1
Hammers, farrier's, shoeing	1
Knives—	
Drawing, farriers'	1
Searching „	1
Pincers, farriers'	pair 1
Pritchels „	1
Rasps, farriers', 16-inch	1
Stones, rag, farriers'	1

(b) When regular cut files are in possession.

SETS OF TOOLS—*continued.*

Articles							No.
FORGE TOOLS							
<i>(Carried in Box, Mobilization, Stores, No. 1.)</i>							
<i>Section No. 7</i>							
Chisels, farriers', handled	....	....	....	....	....	....	2
Hammers, farriers',—							
Sledge, 9½-lb.	....	....	....	....	....	....	1
Turning	....	....	....	....	....	....	2
Stamps, farriers'	....	....	....	....	....	....	2
Tongs, farriers', turning—							
Large	....	....	....	....	....	pair	1
Medium	....	....	....	....	....	”	1
Small	....	....	....	....	....	”	1
<i>Section No. 6</i>							
Nails, horse-shoe (a') ....	....	....	....	....	....	lbs.	3

TINMAN'S TOOLS

<i>Section G—2</i>							
Solder, tinman's, soft	....	....	....	....	....	lbs.	1½
<i>Section No. 7</i>							
Groovers, tinman's, small	....	....	....	....	....	....	1
Irons, soldering, tinman's large	....	....	....	....	....	....	1
Mallets, tinman's	....	....	....	....	....	....	1
Shears, tinman's, snip	....	....	....	....	....	pair	1
<i>Section No. 13—c</i>							
Cloths, sponge	....	....	....	....	....	....	4

EXTRA TOOLS PER BATTERY FOR USE DURING PEACE ONLY*Section No. 7***WHEELERS' TOOLS**

Saws, tenon, 14-inch							1
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SHOEING AND FORGE TOOLS

Cutters, anvil, half round, farriers' large shank							1
Tongs, farriers', fire						pair	1

(a) Description to be stated in demands.

XVI.—MACHINE GUNS

The undermentioned scales of stores are allowed for each battery.

Description of Stores	Peace	War
Number of guns	1	2
<i>Section A1</i>		
Braces, pouch, Lewis gun	10	10
Pouches, magazine, Lewis gun	20	20
Slings, Lewis gun	1	2
<i>Section No. 16—B</i>		
Bags, spare parts and tools, M.G., filled, Lewis		
•303-inch	1	2
Boxes, carrier, magazine, Lewis •303-inch M.G.	3	6
Carriers, magazines, Lewis •303-inch M.G.	2	4
Chests, Vickers or Lewis •303-inch M.G.	2 (b)	2
Covers, Lewis, •303-inch M.G.	1	2
Guns, machine, Lewis, •303 inch, Mark I	1	2
Barrels, Mark I	—	4 (c)
Brushes, wire, rod, cleaning cylinder	1	2
Cleaners, gas regulator	1	1
Cylinders, gas, Mark I	1	2
Handles, loading, magazines	5	10
Magazines, Nos. 5, 6 or 8, Mark I	24	48
Mops, rod, cleaning cylinder....	1	2
Rods—		
Cleaning cylinder	1	2
Piston, complete	2	4
Guns, machine, Lewis, •303-inch, D.P., Mark I	1	—
Aim correctors, Mark I	1	2
Jacks, screw, assembling and removing barrel	1	1
Sights—		
Back, A.A., Mark II	1	2
Fore, A.A., Mark II	1	2
Holders, Lewis, •303-inch M.G., mounting, tripod,		
A.A.	1	2
Indicators, range, stadia, M.G.	1	2
Mounts, field, Lewis •303-inch M.G., Mark III	2 (b)	2
Mountings, tripod, anti-aircraft, Lewis or Hotchkiss		
•303-inch M.G.	1	2
Rods, cleaning, •303 inch M.G., Mark II	1	2
<i>Section No. 27A</i>		
Cartridges, S.A. ball, •303-inch (cordite, bundle packed)....	1128	2256

(a) Contents *see* p. 29.

(b) 1 is for use with D.P. Gun.

(c) Includes 2 spare.

MACHINE GUNS—*continued.*DETAIL OF CONTENTS OF EACH BAG, SPARE PARTS AND TOOLS, M.G.,
FILLED LEWIS, .303-INCH

Description of Stores	No.
<i>Section No. 16—B</i>	
Boxes, tin, small parts, M.G.	1
Cans, oil, M.G.	1
Guns, machine, Lewis, .303-inch—	
Balances, spring, combination (c)	1
Blades, foresight—	
High	1
Low	1
Bolts	1
Brushes, wire, rod, cleaning, cylinder	5(d)
Casings, pinion, assembled	1
Covers, ejector	1
Ejectors	1
Extractors	4
Guides, cartridge	3
Handles—	
Cocking, No. 1	2
Loading, magazines	5(d)
Heads, screw, tangent sight	1
Keys, gas regulator	1
Mops, rod, cleaning, cylinder	1(d)
Pawls, feed arm, Mark I*	2
Pawls—	
Pinion	1
Stop, —	
Magazine No. 1, left, Mark 1*	1
,, No. 2, right, Mark I*	1
Pins—	
Axis—	
Pawl, pinion	2
Sear	2
Trigger	2
Fixing,—	
Head, screw, tangent sight	2
Striker	2
Locking, body	2
Plugs, clearing	1
Regulators, gas	1
Sears, Mark I	1
Spanners, barrel, mouthpiece	1

(c) Or balances, spring, M.G.

(d) Additional to those shown in body of table.

MACHINE GUNS—*continued.*DETAILS OF CONTENTS OF EACH BAG, ETC.—*continued.*

Description of Stores		No.
Guns— <i>Section No. 16.—B—continued.</i>		
Springs—		
Head, screw, tangent sight	....	2
Pawl, feed arm	....	3
„ Pinion	....	4
Pawls, stop, magazine	....	2
Return	....	4
Trigger	....	1
Strikers	....	1
Washers, packing, barrel	....	6
Guns, machine, Lewis .303-inch., Mark I—		
Screws—		
Butt cap	....	2
Clamp ring	....	1
Punches, No. 3 (or No. 4), M.G.	....	1
Reflectors, mirror, .303-inch., M.G.	....	1
Screwdrivers, small, M.G.	....	1
Wallets, Lewis, .303-inch, M.G.	....	1
<i>Weedon Section—A.</i>		
Pull-throughs, .303-inch arms—		
Gauze, wire	 pieces	2
Pull-throughs, double, .303-inch arms	....	2†

† 1 for peace, 2 for war.

2.—DETAILS OF EQUIPMENT.

Note:—Particulars regarding the Brigade headquarters, also for Ammunition Columns will be found in Equipment Regulations, Part 2, Section XI (b), copies of which will be obtained on demand.

1.—BATTERIES

Arms

TABLE 1.	General Proportions— Peace and War
Bottles, oil	1 for each rifle.
Discharges, grenade, Rifle—	
No. 1, Mark I	2 for each battery (peace).
Screwdriver, Mark II	1
Pistols, revolver, .455-inch Webley, Mark VI	1 for "B.S.M., "B.Q.M.S., Farrier-Serjeant and 2 for Signallers.
Pistol, signal, 1-inch	1 for each battery.
Protectors, muzzle, No. 3	1 for each rifle. War only.
Protectors, hammer, Mark II,	1 for each pistol (peace.)
Pullthroughs, .303-inch arms, Mark IV (a)	1 for each rifle.
Gauze, wire	1 for each rifle.
Rifles, short, M.L.E., Mark III* (b)	36 for each battery.
Rods, cleaning, Pistol, Webley, No. 2	1 for each Pistol, Webley.
Scabbards, sword, cavalry patt. '08	1 for each cavalry sword.
Swords, cavalry, patt. '08, Mark I*	1 for each battery for training.
	Officers' chargers (peace only).

(a) And 5 per cent. spare, peace only.

(b) Fitted with swivels, piling Mark II.

BATTERIES—continued.

Accoutrements

TABLE 2.

General proportions

Peace

War

Section A. 1.

Bags, ration	...	...	...	...	1 for each W.O., N.C.O. and man	1 each Officer and all ranks.
Bandollers, 50 rounds	...	...	...	...	1 for each W.O., N.C.O. and man	1 for each N.C.O. and man. except those armed with a pistol.
Belts, waist, B.E. leather	...	...	...	...	1 for each W.O., N.C.O., and man	1 for each man armed with a pistol.
Bottles, water, Mark VI	...	...	...	...	1 for each Warrant Officer, N.C.O. and man	1 for each Warrant Officer, N.C.O. and man.
Braces, with buckle	...	...	...	...	1 for each haversack, O.S.	1 for each haversack. O.S.
Bugles	...	...	...	...	1 for each trumpeter	1 for each trumpeter.
Carriers, water-bottle, O.S.	...	...	...	...	1 for each water-bottle	1 for each water-bottle.
Cases, pistol, with leather loops	...	...	...	...	1 for each man armed with a pistol	1 for each man armed with a pistol.
Haversacks, O.S.	...	...	...	...	1 for each Warrant Officer, N.C.O. and man	1 for each Warrant Officer, N.C.O. and man.
Helmets, steel	...	...	...	...	1 each Officer and all ranks	1 each Officer and all ranks.

BATTERIES—continued.
Accoutrements—continued.

TABLE 2—continued.

TABLE 2—continued.

General proportions

		General proportions	
		Peace	War
<i>Section A. 1—contd.</i>			
Knots , sword, buff, M.S. ....	....	1 for each cavalry sword.	1 for each pistol.
Lanyards , pistol ....	....	1 for each pistol	1 for each pistol.
Pouches , ammunition, pistol, with leather loop	....	1 for each pistol	1 for each rifle.
Slings , rifle, web ....	....	1 for each rifle	1 for each Warrant Officer,
Straps , brown, mess-tin, M.S. ....	....	1 for each Warrant Officer, N.C.O. and man†	N.C.O. and man.
Strings , bugle, and trumpet, Royal ....	....	1 for each bugle and 1 for each trumpet	1 for each bugle and 1 for each trumpet.
Thongs , whistle ....	....	1 for each whistle artillery	1 for each whistle artillery.
Tins , mess, M.S. ....	....	1 for each N.C.O. and man and 5 per cent. spare	1 for each N.C.O. and man.
Trumpets ....	....	1 for each trumpet	1 for each trumpeter.
Whistles , artillery ....	....	1 for each Warrant Officer, Staff Serjeant and Serjt.	1 for each Warrant Officer, Staff Serjeant and Serjt.

† and 5 per cent. spare peace only.

Materials for Repair of Bandolier and Water-bottles

As detailed in Equipment Regulations, Part 1.

Harness and Saddlery

TABLE 3.	For each battery		Remarks		
	War	Peace			
HARNESS					
<i>Section No. 5A.</i>					
Harness—					
Shaft draught, off		 sets	1	1	
Pole draught, G.S.—					
Lead (a)			60	24	
Wheel (a)			40	18	
SADDLERY					
<i>Section No. 6A.</i>					
Saddlery—					
Officers (a)		 sets	5	5	
Universal, R.A. (a)			33(c)	22	
Blankets, saddle			(b)	....	

(a) For details of sets of Harness and Saddlery, see Equipment Regulations, Part 1. In war a reversible bit and rein, head collar, surcingle and head bridle will be issued for each horse not equipped with a set of harness or saddlery.

(b) 1 for each horse, except when issued with H. & S.

(c) Includes 2 sets spare and 1 set for R.A.V.C. detail attached.

Harness and Saddlery

TABLE 4.

TABLE 4.	Peace	Remarks
	Spare, for each battery	
<i>Section No. 2A.</i>		
Ropes, head, hemp, with ring, Mark IV....	4	Annual supply.
<i>Section No. 5A.</i>		
Breechings	2	
Collars, breast	4	
Leggings, drivers'	2	
Neck piece, pole bar	4 (a)	
Pans, oil	2	
Reins, driving, long set	1	
Rings, rein, driving	4	
Straps, neck	2	
Straps—		
Hip, long, wheel....	1	
Loin, lead	1	
Traces, wire—		
Short pairs	2	
Long "	2	
Adjustable "	2	
Whips—		
Drivers'	2	
Driving, Mark III	1	
<i>Section No. 6A.</i>		
Bits, portmouth, reversible	5	
Blankets, saddle	2	
Collars, head	2	
Girths, leather, patt. '84	2	
Leather, stirrup	2	
Stirrups	2	
Surcingles, leather	2	

(a) Also for war; 1 on each gun carriage limber.

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B 2

TABLE 5.
Miscellaneous Articles and Stable Necessaries

	General Proportions		
	Peace	War	
<i>Section No. 5A.</i>			
Rags, nose, part. 16, small	...	...	1 for each horse and 4 spare for each battery
Boots, remount	...	...	10 per cent. of establishment of horses.
Brushes—			(a).
Dandy	...	...	1 for each double set of harness annually
Harness, hard	...	...	1 for each horse annually
Horse	...	...	...
Clippers, horse (a)	...	...	1 for each horse annually.
Combs, curry	...	...	1 for each horse annually
Rubbers, horse	...	...	8 for each battery.
Scissors, trimming	...	...	1 for each single set of harness and 1 for each set of saddlery, annually.
Sponges, 7-drachms (or 1 oz.)	...	...	...
			1 for each horse.
			1 for each double set of harness.
			1 for each horse.
			...
			1 for each horse.

Section No. 6A.				
Straps, kicking (c)	...	...	...	1 for each battery.
Equitation Articles, (b)	...	...	sets	1 for each battery.
Crosstrees	...	...	...	1 for each battery.
Pads, vaulting	...	...	...	4 for each battery.
Buckets, rifle, cavalry	...	...	...	4 for each battery.
Frogs, sword, saddle	...	...	...	1 for each battery.
Straps, shoe, case (for sword frog)	...	...	...	1 for each battery.
				4 for each battery.

(a) See Equipment Regulations, Part 1. (b) For detail of set see Equipment Regulations, Part 1. (c) Special to pole draught.

HARNESS AND SADDLERY

Materials for Preservation and Repair of Harness and Saddlery, including Saddletrees, are given in Equipment Regulations, Part I.

Carriages, &c.

For components, accessories, spare parts, wagon and cart equipment of vehicles, see
Appendix XV, Part I, Equipment Regulations

TABLE 6.

	War			Peace		
	For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber	For each ammunition wagon and limber	For each battery
<i>Section No. 14.</i>						
Apparatus, illuminating, aiming point †	...	...	...	...	...	...
Bar, supporting draught pole, No. 3	(spare)	...	...	1	1	...
Blocks, brake, field and transport	(")	...	...	1	...	8
Can, lubricating, No. 3	...	...	...	2	2	...
Caps, dust, 2nd class, "C" capped wheels, No. 1	(spare)	...	...	1(c)	...	...
Carriage, field, Q.F. 4.5-inch howitzer	...	...	...	1	1	4
Carrier, No. 7 dial sight, No. 1	...	...	...	1(d)	...	1(d)
Case, dial sight carrier, Q.F. 4.5-inch howitzer	...	...	...	1(d)	...	1(d)
Cases, tool, Q.F. 4.5-inch howitzer	...	...	...	4	...	4
Carriage, field, Q.F. 4.5-inch howitzer—	...	...	...	...	...	...
Carrier, retarding valve, buffer piston	(spare)	...	...	1	...	1
Collar, dividing valves, buffer piston	(")	...	...	1	...	1
Rings, packing, U-section, hydraulic buffer	(")	...	...	2	2	...
Rings, securing leather packing, hydraulic buffer	(")	...	...	...	...	1

Carriages, &c.—continued.

TABLE 6—continued.

	War			Peace		
	For each carriage and limber	For each ammu- nition wagon and limber	For each battery	For each carriage and limber	For each ammu- nition wagon and limber	For each battery
<i>Section No. 14—continued.</i>						
Rings, compressed packing—						
No. 2 " " "	()					8
No. 2, supplementary " "	()					6
Screws, lubricating hole, boss-head, $\frac{3}{8}$ -inch $\times$ $\frac{1}{4}$ -inch " "	()	2		2		...
Sights—						...
Bar, carriage, field, Q.F. 4.5-inch howitzer	...	1		1		...
Fore, bar sight, Q.F. 4.5-inch howitzer	(spare)	...		...		1(d)
Spanners—						...
No. 93 " " "	...	...		1(a)		...
No. 284 " " "	...	1		...	1(a)	...
No. 285 " " "	...	1		...	...	...
No. 288 " " "	...	1		...	...	...
Hydraulic buffer—						...
No. 145 " " "	...	1		...	...	...
No. 146 " " "	...	1		...	...	...
No. 147 " " "	...	...		...	...	...
Springs—						...
Catch, limber and perch hooks	(spare)	1		...	...	1

Limber hook, Q.F. 4·5 inch howitzer	(")
Spiral automatic clamp, bar sight, Q.F. 4·5-inch howitzer (spare)	(") (spare)
Running out, Q.F. 4·5-inch howitzer and 3-20 cwt H.A.—	H.A.—
Wound left 	(spare)
Wound right 	(")
Straps, securing—	
1-inch × 72-inches	....
1 " × 63 "	....
1 " × 54 " double loop	....
1 " × 48 " R loop	....
1 " × 44 "	....
1 " × 36 "	....
1 " × 36 " double loop	....
1 " × 30 "	....
1 " × 26 "	....
1 " × 22 "	....
1 " × 18 "	....
1 " × 13 "	....
1 " × 10 "	....
1 " × 10 " double, with 2 loops	....
1 " × 36 "	....
1 " × 22 "	....
1 " × 13 "	....
Tools, withdrawing ring, supporting packing, field carriages ...	
Trays—	
Box ammunition, limbers and wagons, Q.F. 4·5-inch howitzer	Q.F. 4·5-inch
Small stores, carriage, limber, Q.F. 4·5-inch howitzer—	.....
No. 1 ....	.....
No. 2 ....	.....

(a) For each sub-section.

(b) Carried as convenient.

(d) Spare on mobilization, transferred to "A" Echelon of D.A. Column.
(e) For each section.

Carriages, &c.—continued.

TABLE 6—continued.

	War			Peace		
	For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber	For each ammunition wagon and limber	For each battery
<i>Section No. 14—continued.</i>						
Wagons—						
Ammunition, Q. F. 4.5-inch howitzer	...	...	10	...	...	4
Limbered, field artillery (a)	...	...	1	...	...	...
Fore ...	...	...	1	...	...	...
Hind ...	...	...	...	...	...	...
<i>Section No. 15A.</i>						
Screws, lubricating, hole, boss-head, $\frac{3}{8}$ inch $\times$ $\frac{1}{2}$ inch (spare)	1(b)	...	...	1(b)	...	...
<i>Section No. 15B.</i>						
Wrenches, adjusting, No. 7, dial sight and carrier	1(b)	...	...	1(b)	...	...

Camp Equipment

TABLE 7.

	War			Peace			General Proportions
	For each carriage and limber.	For each ammunition wagon and limber.	For each battery.	For each carriage and limber.	For each ammunition wagon and limber.	For each battery.	
<i>Section No. 2A.</i>							
Axes, felling, curved helve	...			...	1(a)	...	
Bags, picketing gear	...		4	...	...	...	
Boxes, stationery, field, large	...		1(b)	...	6	...	
Buckets, water, G.S., canvas	12	6	...	12	...	...	
Hooks—							
Bill	1	1	...	1	1	...	2 for each bag, picketing gear. <i>War only.</i>
Reaping, large	...	...	8	...	...	...	1 for each horse. <i>War only.</i>
Kettles, camp, oval, 12-qts.	...	...	2	...	...	...	1 for each horse. <i>Peace and War.</i>
Mallets, heel peg	...	...	...	...	...	...	1 for each 4-ft. 9-in. heel rope.
Nets, hay	...	...	...	...	...	...	1 for each horse. <i>War only.</i>
Pads, sureingle	...	...	...	...	...	...	
Pegs, picketing, with rope loop, Mark II	...	...	...	...	...	...	
Ropes—							
Head, hemp, with ring, Mark IV (d)	...	...	...	...	...	...	

Implements, Butchers'

TABLE 8.

	Scale of issue WAR			
	200 to 300 men	100 to 200 men	50 to 100 men	25 to 50 men
<i>Section No. 12.</i>				
Balances, spring—				
100-lb.	1	....	....	....
30-lb. (a) ....	....	1	1	1
Bowls, hand	2	2	1	1
Cleavers, 2-ft. 1-in. (b)	1	1	....	....
Forks, flesh	1	1	1	1
Implements, butchers'—				
Balances, spring, 4-lb.	2	1	1	....
Choppers, meat	2	1	1	1
Hooks, dressing, 9-inch	12	6	6	....
Knives—				
Cutting	3	2	1	1
Flaying, large	2	1	1	1
Saws, tenon, 14-inch	2	1	1	1
Sheets, ground (unserviceable)				
(c)	2	1	1	1
• Steels	2	1	1	1
Steelyards, 56-lbs.	2	1	1	....
Knives—				
Cooks—				
12-inch	2	1	1	....
9-inch (d)	3	2	1	1
6-inch (d)	3	2	1	1
Opening, tins	6	4	3	2
Ladles, cooks', F.A.	2	1	1	1
Machines, mincing, tinned iron—				
Large	1	1	....	....
Small ....	....	....	1	1
Saws, butchers, bow. 20-inch	1	1	1	....
<i>Section No. 21—A.</i>				
Holdalls, implements, butchers†				

(a) Balances, spring, 100-lb., will be allowed until 30-lb. are available.

(b) Choppers, meat, will be issued in lieu until cleavers are available.

(c) To place the cut-up meat on. A chopping block, if required, must be im-
provided.

(d) Knives, cutting, in lieu if cooks' knives are not available.

Implements, for use during peace, will be issued according to Equipment
Regulations, Part 1.None of the above items will in future be allowed as vehicle equipment for the
"Carts, Officers' Mess" or "Kitchen, travelling."

† One for each battery.

Ordinance and General Stores

TABLE 9.

	War			Peace			Remarks
	For each carriage and limber	For each ammu- nition wagon and limber	For each battery	For each carriage and limber	For each ammu- nition wagon and limber	For each battery	
<i>Section A. 1.</i>							
Caps, knee	...	...	...	...	...	36	
Cases, pistol, signal	...	...	1	...	...	1	
Frogs, cutter, wire, folding	...	...	20	...	...	20	
Straps—							
With buckle	...	...	20	...	...	20	
With stud	...	...	20	...	...	20	
<i>Section No. 7.</i>							
Chests, tool, filled, smiths' (a)	...	...	...	...	...	1	Carried as convenient.
Anvils, 40-lbs.	...	...	1	...	...	...	
Anvils, 5-lb. 10-oz.	...	...	...	...	...	1(b)	
Brushes, sable, writing, duck, large	...	...	...	...	...	2(b)	
Cases, saw, hand	...	2	...	...	2	...	
Chisels, ripping	...	...	1	...	...	1	

(a) On mobilization the chest and tools will be returned to store.

(b) For marking purposes.

Ordinance and General Stores—continued.

TABLE 9—continued.	War.			Peace			Remarks
	For each carriage and limber.	For each ammunition wagon and limber.	For each battery	For each carriage and limber.	For each ammunition wagon and limber.	For each battery	
<i>Section No. 7—continued.</i>							
Cutters, wire, folding	...	...	20	...	...	20	
Files—							
Second cut, half round, 6-inch	...	1	...	1	...	...	
Smooth—							
Hand, safe edge, 8-inch	...	1	...	1	...	...	
Flat, 6-inch	...	1	...	1	...	...	
Forges, field, light	...	...	1	...	...	...	
Hammers—							
Claw, 24-oz.	...	1	...	1	...	...	
Riveting—							
24-oz.	...	...	1	...	...	1	} Carried as convenient, in peace.
8 oz.	...	...	1	...	...	1 (b)	
Smith's, sledge, 10-lb.	...	...	...	...	...	1	
Handles, file, small	...	1	...	...	...	...	
Irons, branding, $\frac{3}{8}$ -inch—	...	...	...	...	...	...	
Figures 0 to 8	...	...	...	...	...	1	
	sets						

Ordnance and General Stores—continued.

TABLE 3—continued.		War			Peace			Remarks
		For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber	For each ammunition wagon and limber	For each battery	
Section No. 7—continued.								
Spanners—								
Adjustable, 15-inch		...	...	...	1(c)	...	...	
Adjustable, 11-inch....		...	...	...	1	...	...	
Tools (h)—								
Fitters' or wheelers'—								
No. 1		...	...	2d)	...	...	1	
No. 3		...	...	1(e)	...	...	1	
Forge		...	...	1(e)	...	...	1	
Saddlers'—								
No. 1		...	...	2(d)	...	...	1	
No. 2		...	...	1(f)	...	...	1	
Shoeing		...	...	3(g)	...	...	3	
Tinman's		...	...	...	...	...	1	
Tools, screw-cutting, bolt and nut, R.A., field—		...	...	...	...	...		Carried as convenient.
Chest, filled (a)		...	...	...	...	...	1	Carried as convenient.

TABLE 9—continued.

TABLE 9—continued.	War			Peace			Remarks
	For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber	For each ammunition wagon and limber	For each battery	
Section No. 8D.							
Cases, compass, prismatic	...	...	2	...	...	2	For plane table
Celluloid, sheet, transparent .006-inch, X 18-inch X 18-inch	...	...	2	...	...	2	
Compasses—							
Beam, 26-inch, Mark II	...	...	1	...	...	1	
Magnetic, plane table, Mark II	...	...	2	...	...	2	
Protractors—							
Air, photograph	...	...	1	...	...	1	
Semi-circular celluloid, 8-inch special, Mark II	...	...	2	...	...	2	
Rules, sight, 16-inch (j)	...	...	1	...	...	1	
Scales, mathematical boxwood, No. 11	...	...	2	...	...	2	
Straightedges, 36-inch	...	...	1	...	...	1	
Table, plane, portable, Mark II	...	...	1	...	...	1	

Tapes, measuring, metallic woven, 100-ft.	...	...	1	...	...	1
Watches, stop, $\frac{1}{2}$ second, Mark II	...	...	1	...	...	1
<i>Section No. 9A.</i>						
Chalk, prepared, white boxes	...	...	1(a)	...	...	...
Grease, lubricating, for cool climates (b) lbs.	3	6	...	...	...	...
Mineral jelly, red (c) "	...	...	6	...	...	...
Oil, dag " pints	2	...	...	$\frac{1}{2}$	...	For protection of bore and breech fittings. Peace allowance to $\frac{1}{4}$ -pint per gun annually.
Oil—						
Mineral (for buffers) pints	2	2	...	2(d)	...	...
Rangoon " "	2	1 $\frac{1}{2}$	...	...	2(d)	...
<i>Section No. 9B.</i>						
Boxes, dubbing or mineral jelly, 2-lb.	...	...	7	...	...	...
Cylinders, paint, No. 3	...	...	2	...	...	For mineral jelly. 1 for each rifle.
Tins, oil, with screw top, $\frac{1}{4}$ pint (empty)	...	...	...	...	...	...
<i>Section G—1.</i>						
Padlocks, iron, 2-inch	...	...	3	...	...	For boxes containing artificers' tools.

(a) Box carried in F.A. limbered wagon, but a small supply carried in small stores tray of carriage limber.

(b) "Grease, lubricating for hot climates" will be used at all stations abroad.

(c) See Regulations for care and preservation of Artillery Equipments—2-ozs. of mineral jelly for each howitzer will be allowed for one application.

(d) To replace unserviceable and to make good any leakages. The proportions will be replaced when certified necessary.

(e) When existing stock is exhausted "Rules, sight, 18-inch" (Section No. 29b) will be issued in lieu.

TABLE 9—continued. Ordnance and General Stores—continued.

	War			Peace			Remarks
	For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber	For each ammunition wagon and limber	For each battery	
<i>Section No. 6.</i>							
Shoes, horse (spare) (e) (f) (g)	...	...	...	...	...	...	
Valises, horse-shoe, Mark II (h)	...	...	10	...	...	4	
<i>Section No. 11.</i>							
Brushes—							
Water, carriage	1	1	...	1	...	...	
Paint, sash tool, No. 6	1	...	...	1	...	...	
Lamps, hurricane	1	...	...	...	...	...	For removing dirt and grit from saddle and cradle.
<i>Section No. 12.</i>							
Handcuffs, common	...	...	2	...	...	2	
Machines, chaff-cutting, heavy	...	...	1	...	...	...	

TABLE 9—continued.

TABLE 9—continued	War			Peace			Remarks
	For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber.	For each ammunition wagon and limber	For each battery	
<i>Section No. 15B—continued.</i>							
Bucket, aiming posts	...	...	1	...	...	1	
Cables, No. 5 sight, illuminating apparatus—							
No. 2 (e)	1	...	...	1	...	...	
No. 11 (e)	2	...	...	2	...	...	
Case, No. 7 dial sight, No. 1	1	...	1(c)	1	...	1(c)	
Cases, No. 2 or 3, tinted spectacles	...	...	4	...	...	...	
Cases, stand—							
Artillery, rangefinder	...	...	1	...	...	1	
No. 6 director	...	...	2	...	...	2	
Case, telescope, field artillery	...	...	1	...	...	1	
Climometers, field, Mark VI	1	...	...	1	...	...	
Clip, lead, No. 1 (e)	3	...	...	3	...	...	
Covers, board artillery	...	...	1	...	...	1	
Directors, No. 6	...	...	2	...	...	2	
Gun, rules, Q.F. 4.5-inch howitzer	1	...	...	1	...	...	

Laths, adjusting, artillery range-finder	...	...	...	...	...	...	1	...	...	1
Periscopes, No. 14	...	...	...	...	...	...	1	...	...	...
Plotters, field, Mark IV	...	...	...	...	...	...	1	...	...	...
Posts, aiming crosshead—	...	...	...	...	...	...	...	...	...	...
Circular head (b)	...	1	...	...	...	...	...	1	...	...
Square head (b)	...	1	...	...	...	...	...	1	...	...
Posts, aiming, with flag	...	...	...	...	...	...	...	...	...	...
Protectors, ear drum (2 to a set)	...	6	...	...	...	...	...	6	...	4
Protractors, arc, Mark II	...	...	...	...	...	...	...	...	...	...
Range-finders, artillery, No. 2, Mark II**	...	...	...	...	...	...	...	...	...	2
Sights, dial, No. 7	...	1	...	...	...	...	1(c)	1	...	1
Spectacles, tinted—	...	...	...	...	...	...	...	...	...	1(c)
No. 2 (d)	...	...	...	...	...	...	2	...	...	...
No. 3 (d)	...	...	...	...	...	...	2	...	...	...
Stands—	...	...	...	...	...	...	...	...	...	...
Artillery range-finder	...	...	...	...	...	...	1	...	...	1
No. 6 director	...	...	...	...	...	...	2	...	...	2
Paralleloscope or Mark II Artillery board, Mark II....	...	...	...	...	...	...	1	...	...	1
Telescopes—	...	...	...	...	...	...	...	...	...	...
F.A.	...	...	...	...	...	...	1	...	...	1
Drift, No. 3	...	1	...	...	...	...	...	1	...	...
Case, memorandum of examination	...	1	...	...	...	...	...	1	...	...
Gauge, striker protrusion, No. 1 (f)	...	1	...	...	...	...	...	1	...	...
Lanyard, firing No. 7	...	...	...	...	...	...	...	...	...	4

For firing puffs.

(b) Carried on gun carriages in pairs of the same shape, the left guns of sections having circular and the right guns of sections square-headed posts.

(c) 1 spare. On mobilization transferred to "A" Echelon of D.A. column.

(d) For machine gunners (A.A. detachments).

(e) Only if "Apparatus, illuminating sights, No. 5" in possession.

(f) No. 1 gauge will continue to be used until unserviceable and the existing stock exhausted when the No. 15 gauge will be issued.

Ordnance and General Stores—continued.

TABLE 9—continued.	War			Peace			Remarks
	For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber	For each ammunition wagon and limber	For each battery	
Section No. 17a.							
Ordnance, Q.F. 4.5-inch howitzer ...	...	...	4	...	...	4	† 3 for each battery stationed at Larkhill.
Bushes, firing hole ... (spare)	...	...	1	...	...	1	
Extractors ... (")	1(a)	...	...	1(a)	...	...	
Plus—							
Actuating firing lever ... (")	1(a)	...	...	1(a)	...	...	
Firing ... (")	2	...	...	2	...	...	
Keep, trigger ... (")	1	...	...	1 †	...	...	
Plates, cam, B.M. lever ... (")	1(a)	...	...	1(a)	...	...	
Springs—							
Catch—							
B.M. lever ... (")	1	...	...	1	...	...	
Retaining cover plate (")	1(a)	...	...	1(a)	...	...	
Retaining, cylinder, nut (")	1(a)	...	...	1(a)	...	...	
Main ... (")	1(a)	...	...	1(a)	...	...	

Safety stop	...	(	1	...	...	1
Strikers	...	)	...	1	...	...
Triggers	...	(	1	...	...	1
Wrench, B.M., No. 90	...	)	...	1	...	...
<i>Section No. 19.</i>						
Boxes, lamp, siege, to hold 2	...	...	...	4(b)	...	4(b)
Brushes—						
Breech screw	...	...	1	...	1	...
Piasaba, Q.F. 4.5-inch howitzer, bore	...	...	...	...	...	...
Candles, lamp, siege	...	...	...	...	...	...
Cases, No. 8A or No. 17, cleaners	...	...	1	...	1	...
Cleaners, piasaba, No. 8A	...	...	1	...	1	...
Covers—						
Breech, Q.F. 4.5-inch howitzer	...	...	1	...	1	...
Muzzle, No. 17	...	...	1	...	1	...
Sight bracket, and hind sight, Q.F. 4.5-inch howitzer	...	...	1	...	1	...
Lamps, siege	...	...	...	8(b)	...	8(b)
Lashings, tarred, 1-inch—						
20-foot	length	...	...	...	1(c)	...
10-foot	"	...	...	...	2(c)	...
Rammers, Q.F. 4.5-inch howitzer	...	...	1	...	1	...
Ropes, drag—						
Light, G.S.	...	pairs	...	...	1	...
Heavy, 30-ft.	...	"	1	...	...	...

R.A.S.C. supply as required.

(a) For each section.

(b) 2 lamps for each sub-section. The lamps will be normally carried on footboard of ammunition wagon bodies.

(c) For each sub-section for lashing spare jointed pole.

TABLE 9—continued.
Ordnance and General Stores—continued.

	War			Peace			Remarks
	For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber	For each ammunition wagon and limber	For each battery	
<i>Section No. 20.</i>	...	1	...	...	1	...	Carried as convenient, in peace.
Handspikes, common, 6-feet	...	...	...	...	...	4	
Jacks, lifting, G.S.	...	...	1	...	...	...	
<i>Section No. 21A.</i>	...	...	36	...	...	36	1 for each rifle.
Covers, short, rifle	...	...	...	...	...	1	
<i>Section C2.</i>	...	...	1	...	...	...	
Bicycles	...	...	...	...	...	...	
<i>Section No. 23.</i>	1	...	...	1	...	...	
Boxes, No. 1, percussion primers	...	...	...	...	...	...	
Primers, percussion, Q.F. cartridges, No. 1 (spare)	4	...	...	4	...	...	

<i>Section No. 24.</i>									
Cartridges, Q.F. 4.5-inch howitzer, filled, 15-ozs., 12-drs., cordite, R.D.B/S.F., 2½/50, or 15-ozs. 14-drs., cordite, M.D., sizes 4½ and 2¼ ...	12	48	...	12	48	...	2	...	...
Implements, ammunition—									
Key, No. 26—primer, 4.5-inch	...	...	2	...	...	...	2	...	...
Plugs, fuze hole, 2-inch, No. 3 ...	12	48	...	12	48	...	...	...	...
Shell, Q.F., filled—									
H.E., 4.5-inch howitzer ...	12	40(c)	...	12	48	...	...	...	...
Smoke, 4.5-inch howitzer	...	...	64	...	...	...	...	...	Not stored. Provided by R.A.O.C. at overseas base.
<i>Section No. 26.</i>									
Fuzes, percussion, D.A., Nos. 101E, 106E...	12	48	...	12	48	...	...	...	...
Implements, ammunition—									
Key, No. 18—setting No. 80 type fuzes (also cutting wire of No. 106 fuzes) ...	1	...	...	1	...	...	...	...	...
Key, No. 53—inserting and removing No. 100 type fuzes ...	2	...	...	2	...	...	...	...	...
Key No. 59—G.S., special, and 2-inch plugs ...	...	...	2	...	...	...	2	...	2

(c) The two ammunition wagons and limbers per battery which do not carry smoke shells will carry 48 H.E. shells each

Ordnance and General Stores—continued.

TABLE 9—continued.

	War			Peace			Remarks
	For each carriage and limber	For each ammunition wagon and limber	For each battery	For each carriage and limber	For each ammunition wagon and limber	For each battery	
<i>Section No. 27—A.</i>							
Cartridges, small, arm, ball— .303-inch (charger packed)	...	...	...	...	...	...	50 rounds for each bandolier, peace and war. Peace 18 rounds, war 36 rounds for each pistol.
Revolver, .455-inch	...	...	...	...	...	...	
Cartridges, illuminating, 1-inch	...	...	6	...	...	...	
Cartridges, signal, 1-inch—	...	...	3	...	...	...	
Green	...	...	3	...	...	...	
Red	...	...	...	...	...	...	
<i>Section No. 28B.</i>							
Cells, inert—	...	...	(b)	...	...	(b) (e)	
"P," Mark I (or "Q")	...	...	(b)	...	...	(b)	
"P," Mark I (or "Q") (spare)	...	...	(d)	...	...	(d) (e)	
"Q"	...	...	(d)	...	...	(d)	
"Q" (spare)	...	...	(d)	...	...	(d)	

Section No. 29B.

Thermometers, survey	...	...	...	1	...	...	...	1
DRILL AND INSTRUCTIONAL STORES—								
<i>Section No. 23.</i>								
Primers, percussion drill, Q.F. cartridges, No. 1	...	...	...	...	...	...	...	4
<i>Section No. 24.</i>								
Cartridges—								
Drill, Q.F. 4.5-inch howitzer	...	...	...	...	...	...	...	24
Dummy, Q.F. 4.5-inch howitzer	...	...	...	...	...	...	...	4
Shell, Q.F. 4.5-inch howitzer (drill or empty) H.E.	...	...	...	...	...	...	...	24
<i>Section No. 26.</i>								
Fuzes, percussion drill—								
No. 106	...	...	...	...	...	...	...	16
No. 101	...	...	...	...	...	...	...	8

(b) 3 for each "Apparatus, illuminating, sight No. 3."

(d) 3 for each "Apparatus, illuminating, sight No. 5."

(e) Not available for war.

Materials, Repairing Carriages, &c.

TABLE 10.

TABLE 10.	War	Peace
		Twelve months' supply(a)
Section G—1.		
Bolts, with nuts, boss-head, square, $\frac{1}{2}$ inch $\times$ $3\frac{3}{8}$ inch	....	2
Chain—		
Brass, solid link, No. 3	 yards	2
Iron, 1 lb. per yard	....	2
Nails—		
Steel, clout, fine, flat head	 lb.	1
Wire, iron, grooved—		
2-inch	....	1
$1\frac{1}{2}$ -inch	....	1
Pins, keep, split (b)—		
$\frac{1}{4}$ -inch $\times$ 5-inch	2(d)	6
$\frac{3}{16}$ " $\times$ $3\frac{1}{2}$ "	2(d)	6
$\frac{3}{16}$ " $\times$ $2\frac{1}{2}$ "	2(d)	6
$\frac{3}{16}$ " $\times$ 2 "	2(d)	6
$\frac{1}{8}$ " $\times$ 2 "	2(d)	6
$\frac{1}{8}$ " $\times$ $1\frac{1}{2}$ "	2(d)	6
$\frac{1}{8}$ " $\times$ 1 "	2(d)	6
$\frac{3}{32}$ " $\times$ $1\frac{1}{2}$ "	2(d)	6
$\frac{5}{64}$ " $\times$ 1 "	2(d)	6
$\frac{1}{16}$ " $\times$ $\frac{3}{4}$ "	2(d)	6
Screws, iron, flat head—		
$2\frac{1}{2}$ -inch, gauge No. 20	(c)	12
2 " " " 20	(c)	12
$1\frac{1}{2}$ " " " 14	(c)	12
$1\frac{1}{4}$ " " " 10	(c)	12
1 " " " 12	(c)	12
1 " " " 8	(c)	12
Tacks—		
Copper †	 lb.	$\frac{1}{4}$
Steel †	....	$\frac{1}{4}$

(a) Carried as convenient.

(b) To be shortened locally as required.

(c) For war scale see D.A. column allowance.

(d) Carried in tray small stores of carriage limbers, 1 for each section.

† To be provided locally.

Materials, Repairing Carriages, &c.—*continued.*TABLE 10—*continued.*

TABLE 10—continued.	War	Peace
		Twelve months' supply(a)
Section No. 14.		
Bolts—		
Flange, axletree, limbers and wagons, Q.F. 13-pr., 18-pr. and 4.5-inch howitzer	(c)	12
Nave, boss-head, square bevelled, $\frac{1}{2}$ -inch $\times$ $3\frac{1}{4}$ -inch	....	2
Tire, No. 45 wheel	....	2
Locks, box, limbers and wagons, No. 6	(c)	1
Screws, lubricating hole, cheesehead, $\frac{1}{2}$ -inch $\times$ $\frac{5}{8}$ -inch (with leather washer). (For pipe box of No. 45 wheel)	(c)	6
Slats, footboard, Q.F. 4.5-inch howitzer	4	2
Staple, lashing, with plate, single, $\frac{1}{4}$ -inch $\times$ 3-inch	....	6
Steel, pieces—		
Bolt—		
2-feet 8-inch $\times$ 1-inch	....	1
2 " 8 " $\times$ $\frac{5}{8}$ "	....	1
2 " 8 " $\times$ $\frac{1}{4}$ "	....	1
Flat—		
2-feet 8-inch $\times$ 3-inch $\times$ $\frac{1}{4}$ -inch	....	1
2 " 8 " $\times$ 2 " $\times$ $\frac{1}{2}$ "	....	1
Plate—		
1-foot 2-inch $\times$ $\frac{1}{4}$ -inch $\times$ $8\frac{1}{2}$ -inch	....	1
1 " 2 " $\times$ $\frac{1}{4}$ " $\times$ 6 "	....	1
Tire, 12-inch $\times$ 3-inch $\times$ $\frac{3}{8}$ -inch, curved	....	1
Straps, securing—		
1-inch $\times$ 22-inch	....	3
1 " $\times$ 18 "	....	3
1 " $\times$ 13 "	....	3
$\frac{3}{4}$ " $\times$ 13 "	....	3
Section No. 21A.		
Rings, leather, dust excluders, 2nd class axletree	(c)	6

(a) Carried as convenient.

(c) For war scale see D.A. column allowance.

Stores for use with Sick Horses.*(See Equipment Regulations, Part I, for Peace Allowance.)*

One "Wallet, veterinary," for use in peace or war, will be held in peace equipment, and one "Chest, veterinary, unit, 25 lbs." will, on mobilization, be supplied by the Army Veterinary Service.

(B 28/442)Q

C

2. DETAIL OF COMPONENT PARTS OF ORDNANCE, CARRIAGES, LIMBERS, WAGONS, AND SIGHTS

Ordnance, Q.F. 4.5-inch Howitzer, Marks I and II

Designation	Detail	No.
Block , breech	steel, body with cover plate ; plunger catch retaining cover plate, spiral spring and retain- ing bush ; and firing hole bush, with fixing screw	1
Catch , retaining, cylinder nut	steel ; plunger with spiral spring and retaining nut	1
Extractor	steel	1
Lever , breech mechanism, Mark I or Mark II	steel ; arm ; lever retaining catch, flat spring, and hinge screw ; cam plate with secur- ing screw, axis pin, and keep pin steel ; arm ; retaining catch lever and hinge screw ; retain- ing catch spring ; spring guide screw ; cam plate with securing screw ; and axis pin with keep pin	1
Lever , firing	steel, body with pawl, and hinge pin	1
Pin — Actuating, firing lever	steel	1
Retaining, extractor	steel	1
Stop , safety	steel, bolt with head, and spiral spring	1
Striker	steel ; body with bush, and fix- ing screw ; firing pin ; firing pin retaining nut ; rebound collar ; main spring ; and striker guide	1
Trigger	steel, and aluminium bolt, lever, and split keep pin	1

Carriage, Field, Q.F., 4.5-inch Howitzer, Mark I

Designation	Detail	No.
Axletree, 2nd class "C," No. 34, Mark II	steel, with fixing bolts	1
Brackets—		
Axletree, supporting shield—		
Inner—		
Left	steel, with fixing bolts and screws	1
Right	steel, with fixing bolts, screw, and spare part case bracket	1
Outer—		
Left	steel, with dust excluder and fixing bolts	1
Right	steel, with dust excluder, spare part case bracket, and fixing bolts	1
Supporting sights •	steel, with clamping screw, set screw, locking plate with hinge screw, catch, spiral spring; and studs with nuts and keep pin; for bar and dial sights	1
Cam, actuating, recoil valve	steel, with fixing screws	1
Collars, adjusting, 2nd class "C," capped wheels	steel	2
Cradle—		
Arc, toothed, actuating recoil valve	steel, with nut and keep pin	1
Bar, actuating recoil valve	steel, with nut and keep pin, roller, and securing nut	1
Bearings, actuating rod—		
Front	steel, with nut	1
Rear	steel, with nut	1
Body	steel	1
Brackets—		
Hinge bolt, front cap—		
Bottom	steel, with hinge bolt and nuts	1
Side	steel, with hinge bolt and nuts	2
Clamping and locking gear	steel	1
Trunnion	steel, with 2 screwed collars each with set screw	1
Buffer, hydraulic—		
Box, stuffing	P.B.	1
Carrier, retarding valve	steel	1
Collar, dividing piston and valve	steel, in halves	1
Coupling, piston rod	steel, with coupling pin with cotter pin with chain and screw eye	1

Carriage, Field, Q.F. 4.5-inch Howitzer, Mark I—*continued.*

Designation	Detail	No.
Cradle—continued.		
Buffer, hydraulic—contd.		
Cylinder	steel, with nut securing howitzer	1
Glands, piston rod	P.B.	1
Plugs—		
Cylinder	steel	1
Filling hole No. 16	steel, also emptying	2
Rings—		
Compressed packing No. 2	Dicks	1
Packing U section	leather	1
Securing leather packing	P.B.	1
Supporting packing—		
Inner	P.B.	1
Outer	P.B.	1
Rod, piston	steel, with front nut and rear nut with keep pin	1
Valves—		
Recoil	P.B.	1
Retarding	P.B.	1
Rotating	P.B.	1
Washers, packing	Copper (4 to a set) set	1
Bush, rear cap	G.M.	1
Caps—		
Front	steel, with G.M. bush and bearing	1
Rear	steel	1
Collars, toothed, actuating recoil valve	steel, with two keep pins	1
Compressor, running out springs	M.B. cylinder, with head with cover plate for oil chamber, with cap and screws	1
Howitzer-stop	G.M., ring with 6 leather washers and 4 bolts each with nut	1
Keys, toothed collar	steel	2
Lever, bar actuating recoil valve	steel	1
Plates—		
Elevation scale	brass with steel fixing screws	1
Instruction	brass with screws	1
Parting running out springs—		
Thick	steel	2
Thin	steel	2
Rods, actuating recoil valve....	steel, with screwed stud	1
Springs, running out—		
Wound left	steel	2
Wound right	steel	1
Stop, gland	steel, with bolt, nut, and keep pin	1

Carriage, Field, Q.F. 4.5-inch Howitzer, Mark I—continued.

Designation	Detail	No.
Pins, linch, 2nd class "C," capped wheels	steel	2
Saddle—		
Bearings—		
Pinion shaft....	M.B., with lubricating screw	1
Pivot	M.B.	1
Body	steel, including 2 trunnion bearings and 2 shoes	1
Brackets—		
Actuating nut, traversing	G.M., with cap and fixing screws with keep pins	1
Worm spindle	steel, brass bushed, with lubricating screw	1
Worm wheel	M.B., with cover, nut compressing disc springs, 2 keep pins, lubricating cup and screws, and fixing bolts	1
Capsquares—		
Left	steel, with B.M. liners and lubricating screw	1
Right	steel, with M.B. liners and lubricating screw	1
Clip, lubricating pipe	brass, with 2 screws and keep pin	2
Lubricator, Stauffer, No. 3	....	2
Pins, capsquares	steel, with spring and fixing screw	4
Pipe, lubricating pinion shaft	copper, with connections	2
Pivot	steel, with nut, keep pin, and lubricating screw	1
Plate, inscription	brass, with screws	1
Shield	steel (upper portion hinged), with two handles, 2 locking brackets, 2 sliding bolts, hood with 2 stops, 2 leather pads, shutter with catch, 2 stays, bracket field clinometer case, and bracket dial sight case	1
Trail—		
Block, housing, No. 9 lubricating can	wood, with leather cover	1
Body—		
Band, joint trail lid	steel (in 4 parts)	1
Bolt, tie, strengthening	steel, with nuts and distance tube in 2 parts, with coupling and lock nuts	1

Carriage, Field, Q.F. 4.5-inch Howitzer, Mark I—*continued.*

Designation	Detail	No.
Trail—continued.		
Body—continued.		
Bearings, axletree—		
Inner—		
Left	steel	1
Right	steel	1
Outer—		
Left	steel	1
Right	steel	1
Brackets—		
Fixing sight carrier case—		
Front	steel, with buckling piece	1
Rear	steel, with buckling piece	1
Supporting tool case—		
Left	steel, with wood strips	1
Right	steel, with wood strips	1
Brake arm, lower—		
Left	steel	1
Right	steel	1
Stiffening—		
Left	steel, T-shaped	1
Right	steel, T-shaped	1
Plates—		
Cover—		
Front	steel	1
Rear—		
Bottom	steel	1
Top	steel	1
Housing spade—		
Left	steel	1
Right	steel	1
Locking	steel	2
Strengthening, corrugated—		
Left	steel	1
Right	steel	1
Stop, spade	steel	2
Supporting pivot bearing bracket, traversing gear	steel	1
Under, traversing lever bracket	steel	1
Sides—		
Left	steel	1
Right	steel	1
Transoms—		
Front	steel	1
Rear	steel	1

Carriage, Field, Q.F. 4.5-inch Howitzer, Mark I—continued.

Designation	Detail	No.
Trail—continued.		
Brackets—		
Hinge, traversing lever	steel, with 7 fixing bolts	1
Housing gun rule—		
Front	steel	1
Rear	steel	1
Pivot bearing traversing gear	steel, with rivets	1
Chain, key, trail box lid	steel, with S-hooks and leather thong	1
Clip, securing—		
Traversing lever	steel frame, with plunger, retaining screws, spiral springs, lubricating screws, and leather pad with rivets	1
Spade	steel	2
Cross-head	steel	1
Guides, saddle shoe—		
Left	M.B., with steel bush	1
Right	M.B., with steel bush	1
Key, trail box lid	steel	1
Lever, traversing	steel and wood, with leather cap, pawl, stud pawl with nut and keep pin, hinge bolt with nut and keep pin, plunger with bush, spiral spring, and retaining screw	1
Lid, trail box	steel, with hinge and hasp	1
Sockets, shield stays—		
Left	steel	1
Right	steel	1
Spade	steel blade, with No. 37 trail eye combined, strengthening plate and angles, and lifting handles	1
Strips, bearing saddle	G.M.	2
Stud, hasp, trail box lid	steel	1
Wheels, 2nd class "C," No. 45....		
	wood, 4 feet 8 inches diameter, 3-inch tyre; steel nave, 11-inch pipe, double spoke, with dust cap and keep pin, locking plate, drag washer, and screw with washer for oil hole	2
Gear, brake—		
Arms, brake—		
Left	steel, with P.B. bushes, shoe with keep pin, and lug coupling rod	1
Right	steel, with P.B. bushes, shoe with keep pin, and lug coupling rod	1

Carriage, Field, Q.F. 4-5-inch Howitzer, Mark I—*continued.*

Designation	Detail	No.
Gear, brake—<i>continued.</i>		
Bearings, lever connecting rod	steel	2
Blocks, brake, field and trans- port	C.I.	2
Brackets, lever axis pin—		
Left	steel, with fixing screws	1
Right	steel, with fixing screws	1
Eccentric	M.B.	1
Handle, actuating screw—		
Front	steel	1
Rear	steel	1
Lever—		
Actuating nut	steel, forked	1
Rod, connecting, eccentric link	steel	1
Connecting rod—		
Left	steel	1
Right	steel	1
Releasing	steel, with axis bolt, nut and keep pin	1
Link, eccentric	steel, with connecting bolt, nut, and keep pin, adjusting screw with nut and keep pin and lubricating screw	1
Nut, actuating screw	M.B., in halves, with cover plate and screws, two covers each with keep pin	1
Pins—		
Axis, levers	steel, with collar, nut and keep pin, and lubricating screw	2
Connecting arm	steel, with collar, nut and keep pin, and lubricating screw	2
Rods—		
Actuating, right	steel, with collar, nut and keep pin, and connecting bolt with collar, nut, and keep pin	1
Connecting—		
Levers	steel, with 10 disc springs No. 62, nut, and keep pin, and con- necting bolt with collar, nut, and keep pin	1
Eccentric link	steel, with connecting bolt, nut, and keep pin	1
Screw, actuating	steel	1

Carriage, Field, Q.F. 4.5-inch Howitzer, Mark I—*continued.*

Designation	Detail	No.
Gear, elevating—		
Arcs—		
Left	steel	1
Right	steel	1
Collar, thrust, worm spindle....	steel	1
Pinions, arc	steel, spur, 13 teeth, with screwed collar pair	1
Shaft, arc pinions	steel, with nut and keep pin	1
Spindle, worm	steel, with collar, nut, and keep pin	1
Springs, disc, No. 72	steel	4
Wheels—		
Hand, 8-inch, No. 3A	G.M., with handle	1
Worm	M.B.	1
Worm	steel	1
Gear, clamping cradle—		
Bearings, clamp—		
Left	M.B., with bolts, and lubricating screw	1
Right	M.B., with bolts, and lubricating screw	1
Clamp	steel, with pawl, spring, and pawl axis pin	1
Gear, locking cradle—		
Brackets—		
Guide, hand lever	G.M., with cover and screws	1
Plunger—		
Left	steel	1
Right	steel, with joint pin and keep pin	1
Levers—		
Cranked—		
Left	steel, with joint pin, with collar and keep pin	1
Right	steel, with spindle, nut and keep pin, roller and joint pin, with collar and keep pin	1
Hand	steel (for releasing cradle)	1
Links, connecting	steel	2
Plungers	steel, with coupling nut with keep pin, and joint pin with keep pin	2
Springs, plunger	steel, spiral	2

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Carriage, Field, Q.F. 4·5-inch Howitzer, Mark I—continued.

Designation	Detail	No.
Gear, traversing—		
Bearings, pivot	G.M., with nut and keep pin	1
Bracket, degree scale	steel, with scale (in halves) and fixing screws	1
Nut, actuating screw	G.M., with steel trunnion rings....	1
Pointer	steel, with screws	1
Screw, traversing	steel, with stop screw, nut, and keep pin, and cover with keep pin	1
Wheel, hand, 8-inch, No. 3	G.M.	1

Stores attached to and included as part of the carriage

Clip, securing case, memo. of examination	2
Straps, quick release—	
1-inch × 11-inch (for brake)	1
1 „ × 28½ „ (for handwheels)	1
1 „ × 11 „ with loop (for drag ropes)	1

Limbers, Q.F. 4·5-inch Howitzer, Mark I

Designation	Detail	No.
Body—		
Axletree, 2nd class “C,” No. 250A	steel	1
Box, ammunition	steel	1
Fittings—		
Brackets, lock bolt....	steel, with rivets	1
Catches, limbers and wagons—		
No. 7 near	G.M. plate, with spiral spring and plunger and lever with hinge screw	1
No. 8 off	G.M. plate, with spiral spring and plunger and lever with hinge screw	1
Chains, lid	W.I. (1-lb. per yard) with steel ring and link	2
Clips, rifle—		
No. 1	steel, spring, leather covered	2
No. 2	steel, spring, leather covered	2

Limbers, Q.F. 4-5-inch Howitzer, Mark I—*continued.*

Designation	Detail	No.
Body—<i>continued.</i>		
Fittings—<i>continued.</i>		
Irons, guard—		
No. 43	near	1
No. 44	off	1
Lock, box, limbers and wagons No. 6	G.M., with key and rivets	1
Lid	steel, with hinges and 2 handles	1
Plate, inscription	G.M.	1
Sockets, guard-iron	steel, with screw	4
Staples—		
Hand leather	steel	3
Lashing, special	steel	1
Strips, brass—		
Bottom plate—		
Angle—		
Near		1
Off		1
Plain		6
Centre plate—		
Angle—		
Near		1
Off		1
Plain		6
Turnscrew, shell plug	steel	1
Frame—		
Boards—		
Foot	wood	1
Platform—		
Front	wood	1
Rear	wood	1
Brackets—		
Guide, limber hook	M.B.	1
Lifting jack—		
Near	M.B.	1
Off	M.B.	1
Rear, prop, clip	steel	1
Cases, spring—		
Draught hook—		
Near	steel, with cover, securing screw with chain and keep pin, and cover plate with fixing screws	1
Off	steel, with cover, securing screw with chain and keep pin, and cover plate with fixing screws	1
Limber hook	steel, with nut, pole nib socket and screw compressing	1

Limbers, Q.F. 4.5-inch Howitzer, Mark I—*continued.*

Designation	Detail	No.
Body—<i>continued.</i>		
Frame—<i>continued.</i>		
Catch spring, wire net	P.B., with rivets	2
Chain key, split flat	steel	1
Clip, prop, rear	steel, spring	1
Flanges, axletree—		
Inside	steel	2
Outside—		
Near	steel, with dust excluder and bolts	1
Off	steel, with dust excluder and bolts	1
Futchels—		
Inside—		
Near	steel	1
Off	steel	1
Outside—		
Near	steel	1
Off	steel	1
Hooks—		
Draught	steel, with screw compressing spring	2
Limber, No. 29, Mark II		
	steel, with guide ring with set screw, handle catch with lever keep pin, 2 catch springs and 3 keep pins	1
Key, split, flat, 1-inch × 4-inch	steel, with S hook (for draught pin)	1
Loops, kicking straps, field limbers*—		
Inner	steel, with bolts	1
Outer, No. 2	steel, with bolts	1
Nets, wire—		
Near	steel, galvanized with clips and leather tie	1
Off.... ..	steel, galvanized, with clips and leather tie	1
Pins—		
Keep, nut spring case, limber hook	steel, spring split, with chain and eye	1
Draught, No. 3	steel	1
Plates—		
Gusset—		
Inside futchel—		
Near	steel	1
Off	steel	1

* 1 pair per 2 limbers.

Limbers, Q.F. 4.5-inch Howitzer, Mark I—continued.

Designation	Detail	No.
Body—continued.		
Frame—continued.		
Plates—continued.		
Gusset—continued.		
Outside futchel—		
Near	steel	1
Off	steel	1
Side connecting, ammu-		
nition box—		
Near	steel	1
Off	steel	1
Stiffening, stop shovel	steel	2
Socket, pole	steel, with 2 packing plates	1
Springs—		
Draught hook	steel, spiral	2
Limber hook	steel, spiral	1
Staples, lashing, with plate	steel sets	1
Stays, futchel—		
Near	steel	1
Off....	steel	1
Bar, supporting draught pole,		
No. 3, Mark II	wood	1
Collars, adjusting, 2nd class		
“C,” capped wheels	steel	2
Pins, linch, 2nd class “C,”		
capped wheels	steel	2
Pole, draught, No. 17, Mark III	wood, with tug and nut....	1
Prop, vehicle “B,” No. 2	wood, with securing eye, cap and shoe	
Swingletrees, No. 11	steel	2
Wheels, 2nd class “C,” No. 45	wood, 4 feet 8 inches diameter, 3-inch tyre, steel nave, 11-inch pipe, double spoke, with dust cap and keep pin, locking plate, drag washer and screw with washer for oil hole	2

LEATHER FITTINGS.

Designation	Detail	No.
Cases—		
Billhook ....	....	1
Water brush ....	....	1
Leathers—		
Guard iron (2) ....	....	(a)
Hand, with laces ....	....	2
Loops, spade ....	....	2
Pockets—		
Key, fuze, wagons, ammuni- tion and limbers ....	....	2
Key, lock (2 keys) ....	....	1
Straps, quick release, 1-inch × 11½-inch, with loop	securing rifles on vehicles	2
Ties, lynch pin	for securing wire nets	5

(a) Sub-components of guard irons.

Wagon, Ammunition, Q.F. 4·5-inch Howitzer, Mark I

Designation	Detail	No.
Body—		
Axletree, 2nd class "C," No. 250A	steel	1
Box, ammunition	steel	1
Fittings—		
Brackets, lock bolt	steel, with rivets	2
" supporting fuze indicator	steel, with rivets	2
Catches, limbers and wagons—		
No. 7, near	G.M. plate with spiral spring and plunger, and lever with hinge screw.	2
No. 8 Off	G.M. plate with spiral spring and plunger and lever with hinge screw	2
Chains, lid	W.I. (1-lb. per yard) with steel ring and link	2
Irons, guard—		
No. 43	 near	1
No. 44	 off	1

Wagon, Ammunition, Q.F. 4.5-inch Howitzer, Mark I—*cont.*

Designation	Detail	No.
Body—continued.		
Fittings—continued.		
Lids—		
Front	steel, with hinges and 2 handles	1
Rear	steel with hinges and 2 handles, and M.B. striking plate	1
Locks, box, limbers and wagons, No. 6	G.M., with key and rivets	2
Plate, inscription	G.M.	1
Sockets, guard iron	steel, with screw	4
Staples—		
Hand leather	steel	3
Lashing, special	steel sets	1
Strips, brass—		
Bottom plate—		
Angle—		
Near ....	....	2
Off ....	....	2
Plain ....	....	12
Centre plate—		
Angle—		
Near ....	....	2
Off ....	....	2
Plain ....	....	12
Turnscrew, shell plug	steel	2
Frame—		
Blocks fixing, No. 93 spanners	wood	1
Boards, foot	wood	1
Boards, platform—		
Front	wood	1
Rear	wood	1
Brackets—		
Carrying pole	steel	2
Hinge, brake arm—		
Near	steel, with nut and keep pin	1
Off	steel, with nut and keep pin	1
Hinge, cranked lever—		
Near	steel, with axis pin	1
Off	steel, with axis pin	1
Lifting jack—		
Near	M.B.	1
Off	M.B.	1
Rear, prop clip	M.B. steel....	1
Catches, spring, wire net	P.B., with rivets	1
Clip, prop, rear	steel, spring	1
Eye, perch, No. 17	steel	1

Wagon, Ammunition, Q.F. 4.5-inch Howitzer, Mark I—cont.

Designation	Detail	No.
Body—continued.		
Frame—continued.		
Flanges, axletree—		
Inside	steel	2
Outside—		
Near	steel, with dust excluder and bolts	1
Off	steel, with dust excluder and bolts	1
Hooks, camp kettle	steel	4
Hook, perch, No. 1	steel, with catch, handle catch with lever and keep pin, 2 catch springs and 2 keep pins	1
Nets, wire—		
Near	steel, galvanized, with clips and leather tie	1
Off....	steel galvanized, with clips and leather tie	1
Perch	steel, consisting of 2 side plates, top and bottom plates, perch eye, 2 inside axletree flanges, 2 plates supporting footboard, 2 gusset plates and 2 locking plates	1
Plates—		
Gusset—		
Near side	steel	1
Off side....	steel	1
Side, connecting ammunition box—		
Near	steel	1
Off	steel	1
Sides—		
Near	steel	1
Off....	steel	1
Stays—		
Cross	steel	1
Side—		
Near	steel	1
Off	steel	1
Studs, supporting brake arm	steel, with nut and keep pin	2
Collars, adjusting, 2nd class "C," capped wheels	steel	2
Pins, lynch, 2nd class "C," capped wheels	steel	2

Wagon, Ammunition, Q.F. 4·5-inch Howitzer, Mark I.—*contd.*

Designation	Detail	No.
Props, vehicle "B"—		
No. 1	wood, with fittings	1
No. 2	wood, with fittings	1
Wheels, 2nd class "C," No. 45	wood, 4-feet 8-inches diameter, 3-inch tire, steel nave, 11-inch pipe, double spoke, with dust cap and keep pin, locking plate, drag washer, and screw with washer for oil hole	2
Gear, brake—		
Arms, brake—		
Near	steel, with shoe and keep pin, connecting brackets, and hinge lug	1
Off	steel, with shoe and keep pin, connecting brackets, and hinge lug	1
Blocks, brake, field and trans- port	C.I.	2
Fork, actuating screw	steel, with connecting bolt with collar, nut, and keep pin	1
Handle, actuating screw	steel	1
Levers, cranked—		
Near	steel, with actuating nut, with 2 trunnion screws and 2 keep pins	1
Off	steel, with tumbler, with 2 trunnion screws and 2 keep pins	1
Links, supporting brake arm	steel	2
Rods—		
Actuating	steel, with 2 connecting bolts, each with collar, nut, and keep pin	1
Connecting cranked levers	steel, with 10 disc springs, nut and keep pin, and bolt con- necting with collar, nut, and keep pin	1
Screw, actuating	steel, with nuts and keep pins	1

LEATHER FITTINGS.

Designation	Detail	No.
Case, felling axe, Q.F. 4·5-inch howitzer ....	....	1
Chape, saw case, 1-inch × 6-inch ....	....	1
Leathers—		
Guard irons (2) ....	....	(a)
Hand, with laces	(or loops holding)	3
Loops, saw case (9-inch × 1½-in.) ....	....	1
Pocket, key—		
Fuze, wagons, ammunition, and limbers ....	....	2
Lock (2 keys) ....	....	2

(a) Sub-components of guard irons.

Sights, and No. 7 Dial Sight Carrier, Q.F. 4·5-inch Howitzer, Field Carriage

Designation	Detail	No.
Sight, dial, No. 7 ....	....	1
Sight, bar, carriage, field, Q.F. 4·5-inch howitzer	steel; arm with fore and hind sights automatic clamp, and foresight protector	1
Arm	steel; with foresight clamping screw and foresight protecting cap with chain, loops, and split rings	
Clamp, automatic	gunmetal body, with 4 fixing screws; flat spring, and fixing screw; worm spindle, collar, nut, and keep pin; spiral spring; retaining nut, keep screw; and milled head; arrow plate and 2 screws	
Sight, fore	steel	
Sight, hind	steel; with bearing and set screw; traversing screw, milled head, and keep pin, nut; collar, disc spring No. 73, and keep pin; deflection nut with arrow plate and 2 fixing screws; elevation scale strip with screws; and deflection scale plate with screws	

**Sights, and No. 7 Dial Sight Carrier, Q.F. 4.5-inch
Howitzer, Field Carriage—continued.**

Designation	Detail	Marks	Carrier, No. 7 Dial Sight, No. 1			
			I**	II*	III	IV
Carrier, No. 7 dial sight, No. 1— Brackets—						
Deflection	G.M., with friction roller and axis screw; pivot bolt, with No. 76 spring disc, nut and keep pin; (b) traversing screw in 2 parts with pin; and washer; (a) dust excluding bolt with nut; (a) Mark II deflection gear locking plate, with securing screws; and (b) 2 locking screws, for deflection traversing screw	1	....	....	....	....
Deflection	G.M., with fixing screws; (b) traversing screw in 2 parts, with spring and washer; (a) dust excluding bolt with nut; (a) Mark II, deflection gear locking plate, with securing screws, and (b) 2 locking screws for deflection traversing screw ....	....	1	....	....	....
Elevating	G.M., with 2 worm spindle bearing bushes; 2 trunnion bushes and fixing screws; retaining clip, with fixing screws; 2 lubricating screws; cam securing screw with washer; elevation scale drum; elevation scale arrow plate, with fixing screws; packing plate, with securing screw and washer; elevation scale drum arrow ring; worm	....	....	1	....	....

(a) For Carriers with deflection brackets locked in accordance with § 22529 L. of C.

(b) For Carriers with deflection brackets locked in accordance with § 24034 L. of C.

**Sights, and No. 7 Dial Sight Carrier, Q.F. 4.5-inch
Howitzer, Field Carriage—continued.**

Designation	Detail	Carrier, No. 7 Dial Sight, No. 1				
		Marks	I**	II*	III	IV
Carrier—continued.						
Brackets—contd.						
Elevating— contd.						
Elevating	spindle in 2 parts, with nut, keep pin and No. 75 spring disc; hand wheel; worm; cross level carrier adjusting bolt, with nut and keep pin; cross level carrier pivot screw; (b) cross level carrier supporting bracket, with fixing screws; and longitudinal and cross levels	.....	1	.....	.....	.....
Elevating	G.M., with 2 worm spindle bearing bushes; 2 trunnion bushes and fixing screws; 2 lubricating screws; elevation scale drum; deflection bracket locating pins; elevation scale drum arrow ring; worm spindle in 2 parts, with nut keep pin and No. 75 spring disc; deflection bracket axis stud, with nut, keep pin, No. 77 spring disc and washer; hand wheel; worm; cross-level carrier adjusting bolt, with nut and keep pin; cross-level carrier, pivot screw; (b) cross-level carrier supporting bracket, with fixing screws and longitudinal and cross levels	.....	.....	1	.....	.....
Elevating	G.M., with 2 worm spindle bearing bushes, 2 trunnion bushes and fixing screws; 2 lubricating screws; elevation scale drum; elevation scale drum arrow ring; worm spindle in 2 parts, with nut,					

(b) For carriers with deflection brackets locked in accordance with § 24034 L. of C.

Sights, and No. 7 Dial Sight Carrier, Q.F. 4·5-inch
Howitzer, Field Carriage—*continued.*

Designation	Detail	Marks	Carrier, No. 7 Dial Sight, No. 1			
			I**	II*	III	IV
Carrier—continued.						
Brackets—contd.						
Elevating— contd.						
Elevating	keep pin and No. 75 spring disc; hand-wheel; worm; cross-level carrier adjusting bolt, with nut and keep pin; cross-level carrier pivot screw; dial sight catch pin with handle spring and keep pin; and longitudinal and cross levels	....	....		1	....
	G.M., with 2 worm spindle bearing bushes; 2 trunnion bushes and fixing screws; 2 lubricating screws; elevation scale drum, arrow ring; worm spindle in 2 parts, with nut, keep pin and No. 75 spring disc; handwheel; worm; cross-level carrier pivot screw; dial sight catch pin, with handle, spring and keep pin; dial sight adjusting screw, with lock nut; thumb screw and longitudinal and cross-levels	....	....	....		1
Carrier, cross-level	G.M.; with bubble case, with spirit bubble and plug; reflector with hinge pin and reflector spring with fixing screws	1(c)	(c)1	1(c)	....	
Carrier, cross-level	G.M.; with bubble case, with spirit bubble and plug; reflector with hinge pin and reflector spring with fixing screws	....	....	....		1(c)
Level, longitudinal	M.B. arc; bearing block with fixing screw; slide bracket with fixing screw; bubble case with spirit bubble and plug; 2 adjusting screw collars (1 thick and 1 thin);					

(c) Sub-Component of elevating bracket.

**Sights, and No. 7 Dial Sight Carrier, Q.F. 4.5-inch
Howitzer Field Carriage—continued.**

Designation	Detail	Carrier, No. 7 Dial Sight, No. 1				
		Marks	I**	II*	III	IV
Carrier—continued. Brackets— <i>contd.</i> Level longitudinal— <i>contd.</i>	arrow collar; elevation and depression drums; adjusting screw head; arrow plate with fixing screws; scale plate with fixing screws; reflector with hinge pin; reflector spring with fixing screws; adjusting screw, with nuts and keep pins and bearing spring					
Elevating arc	M.B., with pivot pin, with nut, keep pin, rivet, No. 74 spring disc and washer; 2 cross-level adjusting screw trunnion nut bearings, with fixing screws; 2 trunnion screws with keep pins; cross-level adjusting screw head; cross-level adjusting screw trunnion nut; cross-level adjusting screw; and cross-level adjusting screw spindle, with collar, nut, keep pin, No. 77 spring disc and washer	1(a)	1(a)	1(a)	1(a)	
Elevating arc	M.B., with pivot pin, with nut, keep pin, rivet, No. 74 spring disc and washer; 2 cross-level adjusting screw trunnion nut bearings, with fixing screws; 2 trunnion screws, with keep pins; cross-level adjusting screw head; cross-level adjusting screw trunnion nut; cross-level adjusting screw; and cross-level adjusting screw spindle with collar, nut, keep pin, No. 77 spring disc and washer	1	1	....	....	
		....	....	1	....	

(a) Sub-component of elevating bracket.

**Sights, and No. 7 Dial Carrier, Q.F. 4·5-inch
Howitzer, Field Carriage—continued.**

Designation	Detail	Carrier, No. 7 Dial Sight, No. 1			
	Marks	I**	II*	III	IV
Carrier—continued.					
Brackets— <i>contd.</i>					
Elevating arc	M.B., with pivot pin, with nut, keep pin, rivet, No. 74 spring disc and washer; 2 cross-level adjusting screw trunnion nut bearings, with fixing screws; 2 trunnion screws, with keep pins; cross-level adjusting screw head; cross-level adjusting screw trunnion nut; cross-level adjusting screw and cross-level adjusting screw spindle, with collar, nut, keep pin, No. 77 spring disc and washer	....	....	....	1
Reciprocating	G.M., with lubricating screw; clamping screw; clamping screw handle, with keep pin; bearing strip and fixing screws and hinge stud with keep pin	1	1	1	1
Sight, socket	G.M., with deflection arc and fixing screws; and dial sight catch pin, with handle, keep pin and spring	1	1	....	....
<i>Separate demand-able stores—</i>					
Bolt, adjusting cross-level carrier No. 1, Mark IV carrier, No. 7 dial sight—					
A	Steel, with nut and keep pin, Q.F. 4·5-inch, Marks I and II howitzer	....	....	....	1
Drum, elevation scale, No. 1, Mark IV carrier, No. 7 dial sight—					
A	Nickel alloy, Q.F. 4·5-inch howitzer, field carriage	....	....	....	1

NOTE.—When submitting demands for brackets, the mark of carrier for which intended should be stated.

Wagon, Limbered, Ammunition or Stores.

Wagon, Limbered, Field Artillery.

Designation	Detail	Wagon, limbered A. or S.		Wagon, limbered F.A.	
		Fore Mark I	Hind Mark I	Fore Mark I	Hind Mark I
Body, comprising—					
Axletree, 2nd class, "C," No. 141	steel	1	1	1	1
Bars—					
Cross—					
Centre	wood	1	1	1	1
Nib, socket	} wood, with fittings {	1	....	1	....
Pole, socket		1	....	1	....
Securing spare wheel	wood, with 2 clip plates and 4 bolts each, with nut and washer ....	....	1	....	1
Boards—					
Front	} wood, with fittings {	1	1	1	1
Tail		1	1	1	1
Brackets, supporting spare pole—					
Front	} steel, with bolts, nuts { and washers	....	1	....	1
Rear ....		....	1	....	1
Chains, tailboard ...	steel, with loops	2	2	2	2
Flap, water buckets	canvas, with basil strip ½-inch wide × 12-inch long ....	....	1	....	1
Frame	wood, with bottom boards, earbeds and axletree bed	1	1	1	1
Hooks—					
Draught—					
Near	} steel, with nuts {	1	....	1	....
Off		1	....	1	....
Lashing	G.M.	8	8	8	8
Limber, No. 41	steel	1	....	1	....
Suspending span- ner	steel	1	....	1	....
Joint, tailboard	steel, with nut and washer	2	2	2	2
Keys—					
Limber, hook, No. 19	steel, with chain	1	....	1	....
Split, flat, ¾-inch × 3½-inch	steel, with S-hook	1	1	1	1
Tailboard	steel, with chain and staple	2	2	2	2
Looker, small stores	wood, with fittings	1	....	1	....

Wagon, Limbered, Ammunition or Stores } *continued.*
 Wagon, Limbered, Field Artillery }

Designation	Detail	Wagon, limbered A. or S.		Wagon, limbered F.A.	
		Fore Mark I	Hind Mark I	Fore Mark I	Hind Mark I
Body—continued.					
Partitions—					
48-inch long × 18-	} wood .... }	}	....	2	....
inch wide 					
18½-inch long × 18-					
inch wide 					
18-inch long × 18-					
inch wide 					
Pins, draught—					
No. 1 	steel 	1	....	1	....
No. 2 	steel, with S-hook ....	....	1	....	1
Plates—					
Nib, perch 	steel ....	....	1	....	1
Side, axletree bolts	steel 	2	2	2	2
Strengthening					
front corners—					
Near 	} steel }	}	1	....	1
Off 			1	....	1
Sides—					
Near 	} wood, with fittings }	}	1	1	1
Off 			1	1	1	1
Sockets—					
Nib, pole 	steel 	1	....	1	....
Pole 	steel 	1	....	1	....
Staples—					
Clip—					
Limber - hook					
stay 	steel, with nuts 	2	....	2	....
Pole and perch					
staples 	steel, with nuts 	4	2	4	2
Perch 	steel ....	....	1	....	1
Stays—					
Angle, inner 	steel 	4	4	4	4
Cross bar 	steel 	2	....	2	....
Limber hook—					
Near 	steel 	1	....	1	....
Off 	steel 	1	....	1	....
Nib, side—					
Near 	} steel, with nut and }	}	1	1	1
Off 			1	1	1	1
	washer 				

Wagon, Limbered, Ammunition or Stores } *continued.*
 Wagon, Limbered, Field Artillery }

Designation	Detail	Wagon, limbered A. or S.		Wagon, limbered F.A.	
		Fore Mark I	Hind Mark I	Fore Mark I	Hind Mark I
Body—continued.					
Stays—continued.					
Perch staple	steel .....	....	1	....	1
Pole, nib socket	steel	1	....	1	....
Rear, bracket sup- porting, spare pole	steel, with 2 fixing bolts steel	 2	1 2	 2	1 2
Side, centre	steel	2	2	2	2
Bar, supporting draught pole, No. 3	wood	1	....	1	....
Clips, rifle vehicle—					
No. 1	} steel spring, leather { covered	2	....	2	....
No. 2		2	....	2	....
Collars, adjusting, 2nd class, "C" capped wheels	steel	2	2	2	2
Lashings, tarred—					
1-inch × 10-feet .....	....	....	3	....	3
1-inch × 18-feet .....	....	....	2	....	2
Perch	steel .....	....	1	....	1
Pins, lynch, 2nd class, "C" capped wheels	steel	2	2	2	2
Pole, draught, No. 17, Mark III	wood, with tug and nut	1	....	1	....
Straps, securing	leather (<i>see table of straps</i>) sets	1	1	1	1
Swingletrees, No. 13	steel	2	....	2	....
Wheels, 2nd class, "C" No. 45, Mark III	wood ; 4-feet 8-inches dia- meter ; 3-inch tire ; steel nave ; 11-inch pipe ; double spoke ; with dust cap and keep pin, lock- ing plate, drag washer, and screw with washer for oil hole	2	2	2	2
Gear, brake—					
Blocks, brake, field and transport	C.I. ....	....	2	....	2
Bolts, csk-head, square, $\frac{1}{2}$ -inch × $5\frac{1}{4}$ -inch	steel .....	....	2	....	2

Wagon, Limbered, Ammunition or Stores } continued.
 Wagon, Limbered, Field Artillery }

Designation	Detail	Wagon, limbered A. or S.		Wagon, limbered F.A.	
		Fore Mark I	Hind Mark I	Fore Mark I	Hind Mark I
Gear, brake—contd.					
Brackets—					
Handle	M.B. with connecting pin, with keep pin and fixing bolts	1			1
Supporting stays—					
Near	} steel, with hinge bolt { with nut and keep pin {	1			1
Off		1			1
Handle, brake, No. 6	steel, threaded ; with col- lar and keep pin	1			1
Links, suspending brake shaft—					
Near	} steel, with bolt and } distance tube }	1			1
Off		1			1
Rods, connecting brake shaft	steel	2			2
Screw, brake, No. 21	steel, with stop collar with keep pin, and connect- ing bolt with keep pin	1			1
Shaft, brake	Steel, tubular, with 2 shoes, each with keep pin, and connecting pin with keep pin	1			1
Stays—					
Brake, shaft—					
Near	steel, with nut	1			1
Off	steel, with nut	1			1
Handle, bracket—					
Near	steel, with bolt	1			1
Off	steel, with bolt	1			1
Box, grease, 3-lb.	tin, half round	1	1	1	1
Spanner, No. 93	steel	1		1	

APPENDIX I

List of "Straps, securing," for limbered wagons.

Size in inches	Service for which straps are required	Wagon, limbered				Position of.
		Field Artillery		Ammn. and Store		
		Fore.	Hind.	Fore.	Hind.	
1 × 10	Brush, water	No. 1	No.	No. 1	No.	On near side.
1 × 13	Spanner	1	....	1	....	On front.
1 × 18	Cordage, tarred....	2	....	2	....	On near side.
1 × 22	Ropes, drag, light .....	....	2	....	2	On perch.
1 × 22	Pole, draught, spare .....	....	1	....	1	Under wagon.
1 × 26	Box, grease, 3-lb.	1	1	1	1	On off side.
1 × 30	Bucket, water, G.S.	2	....	2	....	Under wagon.
1 × 36	Pole, draught, spare ....	....	1	....	1	Under wagon.
		7	5	7	5	

**List of "Straps, securing," for carriages, limbers and
wagons, Q.F. 4·5-inch Howitzer.**

CARRIAGE, FIELD, Q.F. 4·5-INCH HOWITZER, MARK I.

STRAPS, SECURING.

Size in inches	Service for which straps are required	No.	Position of
$\frac{3}{4} \times 22$	Clinometer , in case	1	On rear of shield.
$\frac{3}{4} \times 36$	Case , spare parts	1	On rear of shield.
1×18	Rammer	1	Inside trail.
1×30	Covers , breech and muzzle	2	On front of shield.
1×32	Post , aiming, shovel and spade	2	On trail.
1×63	Case , tools	1	On breast of carriage.
		8	

LIMBERS, Q.F. 4·5-INCH HOWITZER, MARK I.

Size in inches	Service for which straps are required	No.	Position of
$\frac{3}{4} \times 13$	Spades	2	One on each side.
1×10	Axe , pick	1	Under limber.
(double, with 2 loops)			
1×10	Brush , water	1	Under footboard, near side.
1×10	Hook , bill	1	Under footboard, off side.
1×22	Axe , pick	2	Under limber.
1×22	Shovels	2	On platform and foot- board.
1×22	Saw , folding, in case	1	On rear of box.
1×26	Box , grease, 3-lb.	1	Under limber.
1×26	Spades	2	One on each side un- der footboard.
1×30	Case , oil can	2	Under limber.
1×36	Saddlery , pole bar, and swingle- tree	3	On footboard.
1×36	Greatcoats or cloaks	6	On top of box.
1×48	Blankets	4	On top of box.
R.L.		28	

WAGON, AMMUNITION, Q.F. 4-5-INCH HOWITZER, MARK I.

Size in inches	Service for which straps are required	No.	Position of
1 × 10	Kettles, camp (handle)	2	Under wagon.
1 × 13	Axe, felling	2	On off side.
1 × 13	Spanner, No. 93	1	On off side.
1 × 26	Box, grease, 3-lb.	1	Under wagon.
1 × 30	Valises	6	On top of box.
1 × 36	Greatcoats	4	On top of box.
1 × 36	Pole, draught, spare, and hand-spike	1	Under wagon.
D.L.			
1 × 44	Greatcoats, drag ropes and picket ropes	2	On top of box.
1 × 44	Kettles, camp (lid)	2	Under wagon.
1 × 48	Blankets	4	On top of box.
R.L.			
1 × 54	Pole, draught, spare, and hand-spike	1	Under wagon.
D.L.			
1 × 72	Box, siege, lamp	1	On top of box.
		27	

List of accessories, spare parts, and wagon equipment :—
Wagon, limbered, ammunition or stores.
Wagon, limbered, Field Artillery.

Description	Wagons, limbered		Where carried
	A. or S.	F. A.	
<i>Accessories.</i>			
Covers—			
Short, rifle	1	1	On rifle.
Wagon	2	2	On wagon (1 fore and 1 hind).
<i>Spare parts.</i>			
Bolts, connecting. Nos. 21 and 34			} In small stores locker.
brake screws	1	1	
Blocks, brake, field and transport	2	2	
Collar, adjusting, 2nd class, "C"			
capped wheels	1	1	
Pins, lynch, 2nd class, "C" capped			
wheels	1	1	
Washers, drag, 2nd class, "C" capped			
wheels	1	1	
<i>Wagon equipment.</i>			
Board, inventory wood	1	1	In small stores locker.
Brush, water, carriage	1	1	On "near" side wagon, fore.
Buckets, water, G.S. canvas	2	2	Under, rear, wagon, hind.
Cordage, tarred, spun-yarn, hemp, 3-			
thread lbs.	5	5	On "near" side wagon, fore.
Grease, lubricating	6	6	In grease boxes.
Hammer, claw, 16-oz. (or 14-oz.)	1	1	} In small stores locker.
Pincers, carpenter's pair	1	1	
Ropes, drag, light, G.S.	1	1	On perch.
Screwdriver, G.S., 6-inch	1	1	} In small stores locker.
Spanner, adjustable, 11-inch	1	1	
Valise, horseshoe	1	1	As convenient.

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 6-inch "B" Q.F. Guns on Carriages, Garrison, C.P., Mark II (Land Services), 1924. 4d.
 Mortar Drill for 6-inch Medium Mortar, Marks I, II and III. Jan., 1923. (G.D. 52.) 2d.
 8-inch B.L. Howitzer, Marks VII, VII*, VII** and VIII. Carriages, Marks VII and VIIa. 1923. 6d. Amendment No. 1. 1d.
 9·2-inch B.L. Marks X, X and X* Guns on Mark V Mounting (Land Service). 1922. 6d. Amendment. 1d.
 9·2-inch B.L. Marks X, X and X* Guns on Mark VI Mounting (Land Service). July, 1923. 9d. Amendments. 1d. Amendments, January, 1925. 1d.
 9·2-inch B.L. Howitzer, Mark II, Carriage, Siege, Mark II. 9d. Amendment No. 1. 1d.
 12-pr. 12-cwt. Q.F. Gun (Land Service), 1924. Amendment. 1d.
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